

Rasilez HCT®

Composition

Active substances: Aiskiren (as aiskiren hemifumarate), hydrochlorothiazide

Excipients:

Rasilez HCT 150 mg/12.5 mg: Cellulose, microcrystalline, crospovidone, lactose monohydrate, wheat starch, povidone, magnesium stearate, silica colloidal anhydrous, talc, hypromellose, macrogol, iron oxide red (E 172), iron oxide yellow (E 172) titanium dioxide (E 171)

Rasilez HCT 150 mg/25 mg: Cellulose, microcrystalline, crospovidone, lactose monohydrate, wheat starch, povidone, magnesium stearate, silica colloidal anhydrous, talc, hypromellose, macrogol, iron oxide red (E 172), iron oxide yellow (E 172) titanium dioxide (E 171)

Rasilez HCT 300 mg/12.5 mg: Cellulose, microcrystalline, crospovidone, lactose monohydrate, wheat starch, povidone, magnesium stearate, silica colloidal anhydrous, talc, hypromellose, macrogol, iron oxide black (E 172), iron oxide red (E 172), titanium dioxide (E 171)

Rasilez HCT 300 mg/25 mg: Cellulose, microcrystalline, crospovidone, lactose monohydrate, wheat starch, povidone, magnesium stearate, silica colloidal anhydrous, talc, hypromellose, macrogol, iron oxide red (E 172), iron oxide yellow (E 172), titanium dioxide (E 171)

Information might differ in some countries.

Pharmaceutical form and quantity of active substance per unit

Rasilez HCT 150 mg/12.5 mg Film-coated tablets containing 150 mg aiskiren and 12.5 mg hydrochlorothiazide
Rasilez HCT 150 mg/25 mg Film-coated tablets containing 150 mg aiskiren and 25 mg hydrochlorothiazide
Rasilez HCT 300 mg/12.5 mg Film-coated tablets containing 300 mg aiskiren and 12.5 mg hydrochlorothiazide
Rasilez HCT 300 mg/25 mg Film-coated tablets containing 300 mg aiskiren and 25 mg hydrochlorothiazide

Indications / Potential uses

Treatment of essential hypertension.

Rasilez HCT is indicated in patients whose blood pressure is not adequately controlled by monotherapy.

Rasilez HCT is indicated as alternative treatment in patients already taking equivalent doses of aiskiren and hydrochlorothiazide as separate tablets.

Rasilez HCT is indicated in the initial treatment of hypertension in patients with moderately to severely increased blood pressure (systolic blood pressure ≥160 mmHg and/or diastolic blood pressure ≥100 mmHg).

Dosage / Administration

Rasilez HCT may be taken without regard to meals.

Patients not adequately treated with monotherapy

Patients whose blood pressure is not adequately controlled by aiskiren or hydrochlorothiazide monotherapy may be switched to combination therapy with Rasilez HCT. The recommended starting dose of Rasilez HCT is 150 mg/12.5 mg once daily.

In patients whose blood pressure cannot be adequately lowered after 2-4 weeks, the dose may be titrated up to a maximum of 300 mg/25 mg aiskiren/hydrochlorothiazide. Dosing should be individualized and adjusted according to the patient's clinical response.

Patients adequately treated with separate tablets of aiskiren and hydrochlorothiazide

Patients already receiving aiskiren and hydrochlorothiazide as separate tablets may be switched to a single tablet of Rasilez HCT containing the same doses of the active components.

Initial treatment of patients with moderately to severely increased blood pressure (≥160 mmHg and/or ≥100 mmHg)

For initial treatment, the recommended starting dose is

150 mg/12.5 mg once daily. If blood pressure remains uncontrolled after 2 to 4 weeks of therapy, the dose may be titrated up to a maximum of 300 mg/25 mg aiskiren/hydrochlorothiazide. Dosing should be individualized and adjusted according to the patient's clinical response.

Renal impairment

No adjustment of the initial dose is required for patients with mild to moderate renal impairment (creatinine clearance ≥30 ml/min/1.73 m²; see "Pharmacokinetics"). Due to the hydrochlorothiazide component, Rasilez HCT should be used only with special caution in patients with severe renal impairment (creatinine clearance <30 ml/min/1.73 m²; see "Contraindications" and "Warnings and precautions").

Epatic impairment

No adjustment of the initial dose is required for patients with mild to moderate hepatic impairment (see "Pharmacokinetics"). Due to the hydrochlorothiazide component, Rasilez HCT should be used with particular caution in patients with severe hepatic impairment (see "Warnings and precautions").

Elderly patients (over 65 years)

No adjustment of the initial dose is required for elderly patients (see "Pharmacokinetics").

Children and adolescents (under 18 years)

Rasilez HCT is not recommended for use in children and adolescents below age 18 due to insufficient data on safety and efficacy (see "Pharmacokinetics").

Contraindications

Hypersensitivity to the active substances aiskiren or hydrochlorothiazide, to sulphonamide derivatives or to any of the excipients of Rasilez HCT.

History of angioedema with aiskiren; hereditary or idiopathic angioedema.

Pregnancy and lactation (see "Pregnancy / Lactation"). Concomitant use of aiskiren with ACE inhibitors or angiotensin II receptor blockers (ARBs) in patients with diabetes mellitus (type 1 or type 2) and in patients with renal impairment (GFR <60 ml/min/1.73 m²).

Anura.

Warnings and precautions

Concomitant use of aiskiren with ACE inhibitors or angiotensin II receptor blockers (ARBs)

Hypotension, syncope, stroke, hyperkalaemia and deterioration of renal function (including acute renal failure) have occurred more frequently on dual blockade of the renin-angiotensin-aldosterone system (RAAS) with aiskiren in combination with an ACE inhibitor or ARB. Combination of Rasilez HCT with an ACE inhibitor or ARB is therefore contraindicated. In certain patients this combination is contraindicated (see "Contraindications").

Renal function/Serum electrolyte changes

Use of Rasilez HCT may lead to worsening of renal function and a rise in serum potassium. This effect may be exacerbated by the concomitant use of agents such as ACE inhibitors, angiotensin II receptor blockers (ARBs) or NSAIDs, including COX2 inhibitors.

Patients with pre-existing renal disease, diabetes mellitus, hypovolaemia, heart failure or liver disease are particularly susceptible. Serum electrolytes and renal function should be closely monitored during treatment with Rasilez HCT.

Electrolytes

Potassium

Thiazide diuretics can precipitate new onset hypokalaemia or exacerbate pre-existing hypokalaemia. Thiazides should be administered with caution and regular monitoring of serum potassium in patients with conditions involving enhanced potassium loss.

Hypokalaemia should be corrected prior to the initiation of Rasilez HCT therapy. Coexisting hypomagnesaemia may make hypokalaemia more difficult to correct. As Rasilez HCT contains aiskiren, supplementation of potassium should be undertaken with great caution. Potassium and magnesium serum concentrations should be monitored regularly. All patients receiving thiazide diuretics should be monitored for imbalances in electrolytes.

Sodium

Thiazide diuretics can precipitate new onset hyponatraemia or exacerbate pre-existing hyponatraemia. This may be accompanied by neurological symptoms (vomiting, confusion, apathy). Thiazide diuretics should only be used after correction of any pre-existing hyponatraemia. Serum sodium concentrations should be monitored regularly.

Calcium

Thiazide diuretics decrease urinary calcium excretion and may cause elevation of serum calcium. Thiazide diuretics should only be started after correcting pre-existing hypercalcaemia or treating the condition responsible for it. Serum calcium concentrations should be monitored regularly.

Volume depletion

In severely volume-depleted patients, symptomatic hypotension may occur after initiation of therapy with Rasilez HCT. Existing volume depletion should be corrected before the start of treatment.

Anaphylactic reactions and angioedema

As with other medicinal products that act on the renin-angiotensin-aldosterone system (RAAS), hypersensitivity reactions such as anaphylactic reactions and angioedema – or symptoms suggestive of angioedema (swelling of the face, lips, throat and/or tongue) – have also been reported in patients treated with aiskiren.

Some of the patients in question had a history of angioedema or symptoms suggestive of angioedema, which in some cases followed use of medicines that can cause angioedema, including RAAS blockers (ACE inhibitors or angiotensin II receptor blockers). Anaphylactic reactions have been reported from post-marketing experience with unknown frequency (see "Adverse effects"). Special caution is necessary in patients with a predisposition for hypersensitivity. In controlled clinical studies, angioedema occurred rarely during treatment with aiskiren. The rate was similar to rates with placebo or hydrochlorothiazide.

Patients with a history of angioedema may be at increased risk of developing angioedema during treatment with aiskiren (see "Contraindications" and "Adverse effects"). Caution should therefore be exercised when prescribing aiskiren to patients with a history of angioedema, and such patients should be closely monitored during, and especially at the start of, treatment (see "Adverse effects").

If angioedema, a hypersensitivity reaction or initial signs of either occur (in particular: difficulty breathing or swallowing; swelling of the face, extremities, eyes, lips and/or tongue), Rasilez HCT should be promptly discontinued and appropriate therapy and monitoring measures provided until complete and sustained resolution of signs and symptoms is achieved. Adrenaline should be administered if there is involvement of the tongue, glottis or larynx. In addition, measures should be taken to ensure a patent airway.

Renal impairment

No adjustment of the initial dose is required for patients with mild to moderate renal impairment (creatinine clearance ≥30 ml/min). Due to the hydrochlorothiazide component, Rasilez HCT should be used only with special caution in patients with severe renal impairment (creatinine clearance <30ml/min). Thiazide diuretics may precipitate azotaemia in patients with chronic kidney disease. Thiazide diuretics are ineffective as monotherapy in patients with severe kidney disease (creatinine clearance <30 ml/min) but may be useful in these patients when used with due caution in combination with a loop diuretic (see "Dosage / Administration" and "Properties / Actions").

Renal artery stenosis

No data are available on the use of Rasilez HCT in patients with unilateral or bilateral renal artery stenosis.

Other agents that act on the renin-angiotensin-aldosterone system (RAAS) may lead to deterioration of renal function in such patients. Particular caution should therefore be taken in these patients, and renal function closely monitored.

Hepatic impairment

No adjustment of the initial dose is required for patients with mild to moderate hepatic impairment. Due to the hydrochlorothiazide component, Rasilez HCT should be used with particular caution in patients with severe hepatic impairment (see "Dosage / Administration" and "Pharmacokinetics").

Systemic lupus erythematosus

Thiazide diuretics, including hydrochlorothiazide, have been reported to exacerbate or activate systemic lupus erythematosus.

Other metabolic disturbances

Thiazide diuretics, including hydrochlorothiazide, may alter glucose tolerance and raise serum levels of cholesterol and triglycerides.

Metabolic effects

Rasilez HCT may raise the serum uric acid level due to reduced clearance of uric acid and may cause or exacerbate hyperuricaemia and precipitate gout in susceptible patients. Rasilez HCT is therefore not recommended for use in patients with hyperuricaemia and/or gout.

General

Hypersensitivity reactions to hydrochlorothiazide are more likely in patients with allergies and asthma.

Rasilez HCT contains lactose and should not be given to patients with rare hereditary problems of galactose intolerance, Lapp lactase deficiency or glucose-galactose malabsorption.

Concomitant use of ciclosporin A or itraconazole

Concomitant use of aiskiren with ciclosporin or itraconazole, potent P-glycoprotein inhibitors, is not recommended (see "Interactions").

Risk of acute myopia and secondary angle-closure glaucoma

Hydrochlorothiazide, a sulfonamide contained in Rasilez HCT, can cause idiosyncratic reactions resulting in acute transient myopia or acute angle-closure glaucoma. This presents as acute onset of decreased visual acuity or ocular pain, which typically occur within hours to weeks of drug initiation. Untreated acute angle-closure glaucoma can lead to permanent vision loss. The primary treatment is to discontinue the drug as rapidly as possible. Surgical and medical measures may need to be considered if intraocular pressure cannot be controlled by other means. A pre-existing sulfonamide or penicillin allergy may be a risk factor for developing angle-closure glaucoma on treatment with hydrochlorothiazide.

Moderate Pgp inhibitors

Coadministration of ketoconazole (200 mg) with aiskiren (300 mg) resulted in an 80% increase in plasma levels of aiskiren (AUC and C_{max}). Preclinical studies indicate that aiskiren and ketoconazole coadministration enhances aiskiren gastrointestinal absorption and decreases biliary excretion. Coadministration of a single dose of 300 mg aiskiren with 240 mg verapamil doubled the AUC and C_{max} of aiskiren. The change in plasma levels of aiskiren in the presence of ketoconazole or verapamil is expected to be within the range that would be achieved if the dose of aiskiren were doubled; aiskiren doses of up to 600 mg, twice the highest recommended therapeutic dose, have been found to be well tolerated in controlled clinical trials. As a result, no dose adjustment for aiskiren is necessary.

Interactions

Aiskiren

Non-steroidal anti-inflammatory drugs (NSAIDs), including selective cyclooxygenase-2 (COX2) inhibitors

Concomitant administration of NSAIDs and COX2 inhibitors may attenuate the antihypertensive effect of Rasilez HCT. In patients who are elderly, volume depleted (including those on diuretic therapy), or with compromised renal function, coadministration of NSAIDs (or COX2 inhibitors) with Rasilez HCT may increase the risk of deterioration of renal function, including possible acute renal failure. These drugs should therefore be combined in such patients only with caution and monitoring of renal function.

Non-steroidal anti-inflammatory drugs (NSAIDs):

In patients who are elderly, volume depleted (including those on diuretic therapy), or with compromised renal function, co-administration of NSAIDs with agents acting on the renin-angiotensin system may result in deterioration of renal function. This may lead to acute renal failure, which is usually reversible. Concomitant administration of NSAIDs may attenuate the antihypertensive effect of agents acting on the renin-angiotensin system, including aiskiren.

ACE inhibitors and angiotensin II receptor blockers (ARBs)

Coadministration of aiskiren with ACE inhibitors or ARBs is contraindicated in patients with diabetes mellitus (type 1 or type 2) and in patients with renal impairment (GFR <60 ml/min/1.73 m²), and is not recommended in all other patients.

Potassium and potassium-sparing diuretics

Aiskiren administration may lead to increases in serum potassium. This risk may be increased by concomitant use of the thiazide component of Rasilez HCT.

Other agents that act on the renin-angiotensin-aldosterone system (RAAS) may lead to deterioration of renal function in such patients. Particular caution should therefore be taken in these patients, and renal function closely monitored.

Furosemide

When aiskiren was coadministered with furosemide, the AUC and C_{max} of furosemide were reduced by 28% and 49%, respectively. It is therefore recommended that the effects be monitored when initiating therapy, and the dose of furosemide should be adjusted, if necessary, to avoid possible under-dosing.

The following substances have been investigated in clinical pharmacokinetic studies without clinically relevant interactions having been identified: acenocoumarol, atenolol, celecoxib, fenofibrate, pioglitazone, allopurinol, isosorbide 5-mononitrate, digoxin and hydrochlorothiazide. Therefore, no dose adjustment is necessary when these substances are coadministered.

Coadministration of aiskiren had no significant impact on the pharmacokinetics of atorvastatin, metformin or amlopinide. Therefore, no dose adjustment is necessary when these substances are coadministered. Concomitant administration of aiskiren with the following substances resulted in a 20-30% change in the C_{max} or AUC of aiskiren: metformin (28% reduction), amlopinide (29% increase), ci-metidine (19% increase).

CYP450 interactions

Aiskiren does not inhibit the CYP450 isoenzymes (CYP1A2, 2C8, 2C9, 2C19, 2D6, 2E1 and CYP3A) and does not induce CYP3A4. Aiskiren is metabolized minimally by the cytochrome P450 enzymes, therefore aiskiren is not expected to affect the systemic exposure of substances that inhibit, induce or are metabolized by these enzymes.

P-glycoprotein interactions

In vitro studies indicate that MDR1 (Pgp) is the major efflux transporter involved in the absorption and disposition of aiskiren.

Pgp substrates or weak inhibitors

No relevant interactions with atenolol or digoxin have been observed. When administered with atorvastatin (80 mg), steady-state aiskiren (300 mg) AUC and C_{max} increased by 50%.

Ciclosporin: Concomitant treatment with ciclosporin may increase the risk of hyperuricaemia and gout-type complications.

Alcohol, barbiturates or narcotics: Concomitant use of thiazide diuretics with alcohol, barbiturates or narcotics can potentiate orthostatic hypotension.

Pressor amines: Hydrochlorothiazide may reduce the response to pressor amines such as noradrenaline. However, the clinical significance of this effect is not sufficient to preclude their use.

Carbamazepine: Patients receiving hydrochlorothiazide concomitantly with carbamazepine may develop hyponatraemia. Such patients should therefore be advised about the possibility of hyponatraemic reactions, and should be monitored accordingly.

Other interactions: Coadministration of thiazide diuretics, including hydrochlorothiazide, may increase the incidence of hypersensitivity reactions to allopurinol, increase the risk of adverse effects caused by amantadine, enhance the hyperglycaemic effect of diazoxide, and reduce renal excretion of cytotoxic substances (e.g. cyclophosphamide, methotrexate) while potentiating their myelosuppressive effects.

Potent Pgp inhibitors

A single-dose drug interaction study in healthy subjects has shown that ciclosporin A (200 and 600 mg) increases the C_{max} of 75 mg aiskiren approximately 2.5-fold and the AUC approximately 5-fold. In healthy subjects, itraconazole (100 mg) increased the AUC and C_{max} of aiskiren (150 mg) 6.5-fold and 5.8-fold, respectively. Concomitant use of these medicinal products and aiskiren is therefore not recommended (see Warnings and Precautions).

Hydrochlorothiazide

Lithium: Reversible increases in serum lithium concentrations and toxicity have been reported during concurrent use of ACE inhibitors and thiazides. There is no experience with concomitant use of aiskiren and hydrochlorothiazide with lithium. Therefore, monitoring of serum lithium concentrations is recommended during concurrent use.

Other antihypertensive drugs:

Thiazides potentiate the antihypertensive action of other antihypertensive drugs (e.g. guanethidine, methyldopa, beta-blockers, vasodilators, calcium channel blockers, ACE inhibitors, angiotensin receptor blockers (ARBs) and direct renin inhibitors (DRIs)).

Curare derivatives: Thiazides, including hydrochlorothiazide, potentiate the action of curare derivatives.

NSAIDs and Cox-2 selective inhibitors: Concomitant administration of NSAIDs (e.g. salicylic acid derivatives, indometacin) may diminish the diuretic and antihypertensive effects of the thiazide component of Rasilez HCT. Concurrent hypovolaemia may induce acute renal failure.

Medicinal products affecting serum potassium levels: The hypokalaemic effect of diuretics may be increased by concomitant administration of kaliuretic diuretics, corticosteroids, ACTH, amphotericin, carbencixolone, penicillin G, salicylic acid derivatives or antiarrhythmics.

Medicinal products affecting serum sodium levels: The hyponatraemic effect of diuretics may be increased by concomitant administration of drugs such as antidepressants, antipsychotics or antiepileptics. Caution is advised in long-term administration of these drugs (see "Warnings and precautions").

Digitalis glycosides:

Thiazide-induced hypokalaemia or hypomagnesaemia may occur as adverse effects, favouring the onset of digitalis-induced cardiac arrhythmias.

Antidiabetic agents: It may be necessary to adjust the dosage of insulin and oral antidiabetic agents.

Anticholinergic agents: The bioavailability of thiazide-type diuretics may be increased by anticholinergic agents (e.g. atropine, biperiden), apparently due to a decrease in gastrointestinal motility and the stomach emptying rate.

Conversely, prokinetic drugs such as cisapride may decrease the bioavailability of thiazide diuretics.

Methyldopa: There have been reports in the literature of haemolytic anaemia occurring with concomitant use of hydrochlorothiazide and methyldopa.

Ion exchange resins: Absorption of thiazide diuretics, including hydrochlorothiazide, is decreased by cholestyramine or colestipol. Administration of hydrochlorothiazide and an ion exchange resin should thus be staggered, with as large a time interval as possible to minimize the interaction.

Vitamin D: Administration of thiazide diuretics, including hydrochlorothiazide, with vitamin D or with calcium salts may potentiate the rise in serum calcium.

Calcium salts: Concomitant use of thiazide diuretics may lead to hypercalcaemia by increasing tubular calcium reabsorption.

Ciclosporin: Concomitant treatment with ciclosporin may increase the risk of hyperuricaemia and gout-type complications.

Alcohol, barbiturates or narcotics: Concomitant use of thiazide diuretics with alcohol, barbiturates or narcotics can potentiate orthostatic hypotension.

Pressor amines: Hydrochlorothiazide may reduce the response to pressor amines such as noradrenaline. However, the clinical significance of this effect is not sufficient to preclude their use.

Carbamazepine: Patients receiving hydrochlorothiazide concomitantly with carbamazepine may develop hyponatraemia. Such patients should therefore be advised about the possibility of hyponatraemic reactions, and should be monitored accordingly.

Other interactions: Coadministration of thiazide diuretics, including hydrochlorothiazide, may increase the incidence of hypersensitivity reactions to allopurinol, increase the risk of adverse effects caused by amantadine, enhance the hyperglycaemic effect of diazoxide, and reduce renal excretion of cytotoxic substances (e.g. cyclophosphamide, methotrexate) while potentiating their myelosuppressive effects.

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Pregnancy / Lactation

Pregnancy

There are no adequate data on the use of aiskiren in pregnant women. Aiskiren was not teratogenic in rats or rabbits. Other substances that act directly on the renin-angiotensin-aldosterone system (RAAS) have however been associated with serious fetal malformations and neonatal death. As for any medicine that acts directly on the RAAS, aiskiren must therefore not be used during pregnancy or by women planning to become pregnant. Healthcare professionals prescribing any RAAS-acting agents should counsel women of childbearing potential about the potential risk of these agents during pregnancy.

Hydrochlorothiazide crosses the placenta. Intrauterine exposure to thiazide diuretics, including hydrochlorothiazide, is associated with fetal or neonatal jaundice or thrombocytopenia, and may be associated with other adverse reactions that have occurred in adults.

In vivo specific clinical studies have been performed with this combination. Rasilez HCT is contraindicated during pregnancy or in women planning to become pregnant (see "Contraindications"). If pregnancy is detected during therapy, Rasilez HCT must be discontinued as soon as possible.

Lactation

Rasilez HCT must not be used by women who are breast-feeding. Hydrochlorothiazide is excreted into the breast milk. It is not known whether aiskiren is excreted in human milk. Aiskiren was secreted in the milk of lactating rats.

Effects on ability to drive and use machines

There have been studies on the effects of this product on the ability to drive or use machines. However, when driving vehicles or operating machinery it must be borne in mind that dizziness or fatigue may occasionally occur during the course of any antihypertensive therapy.

Adverse effects

The safety of Rasilez HCT has been evaluated in 9 clinical trials with more than 3900patients, including over 750 treated for 6 months, and 130 for over 1 year. The incidence of adverse events showed no association with gender, age, body mass index, race or ethnicity. Treatment with Rasilez HCT had an overall incidence of adverse effects at doses up to 300 mg/25 mg similar to placebo. Adverse events have generally been mild and transient in nature and have only infrequently required discontinuation of therapy.

The most frequent adverse drug reaction with aiskiren/hydrochlorothiazide is diarrhoea. Adverse effects are ranked according to frequency, including isolated reports.

Frequencies were defined as follows: *Very common* (≥ 1/10), *common* (≥ 1/100 to < 1/10), *uncommon* (≥ 1/1000 to < 1/100), *rare* (≥ 1/10 000 to < 1/1 000), *very rare* (< 1/10 000), *including isolated reports*. Within each frequency grouping, adverse effects are ranked in order of decreasing seriousness.

Gastrointestinal disorders

Common: Diarrhoea

Diarrhoea: Diarrhoea is a dose-dependent adverse effect of aiskiren. The incidence of diarrhoea was low in patients treated with Rasilez HCT in controlled clinical studies, and was not higher than in patients treated with aiskiren or hydrochlorothiazide.

Post-marketing

Acute renal failure, renal disorder, aplastic anaemia, erythema multiforme, pyrexia, muscle spasm, asthenia, acute myopia and acute angle-closure glaucoma (frequency not known).

Overdose

No data are available on overdose in humans. The most likely manifestation of overdose would be hypotension, related to the antihypertensive effect of aiskiren and hydrochlorothiazide. If symptomatic hypotension occurs, supportive treatment should be initiated.

In a study conducted in patients receiving haemodialysis, dialysis clearance of aiskiren was low (<2% of oral clearance). Dialysis is thus not suitable for treating an overdose of aiskiren.