CaSR

Calcium-sensing receptor

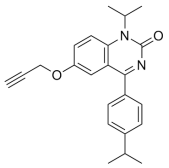
CaSR (calcium-sensing receptor) is a Class C G-protein coupled receptor which senses extracellular levels of calcium ion. In theparathyroid gland, the calcium-sensing receptor controls calcium homeostasis by regulating the release of parathyroid hormone (PTH). The release of PTH is inhibited in response to elevations in plasma calcium concentrations and activation of the calcium receptor. Increased calcium binding on the extracellular side gives a conformational change in the receptor, which, on the intracellular side, initiates the phospholipase C pathway, presumably through a Gqα type of G protein, which ultimately increases intracellular concentration of calcium, which inhibits vesicle fusion and exocytosis of parathyroid hormone. It also inhibits the cAMP dependent pathway.

CaSR Inhibitors, Agonists, Antagonists, Activators & Modulators

Calcium-Sensing Receptor Antagonists I

Cat. No.: HY-50713

Calcium-Sensing Receptor Antagonists I is an antagonist of calcium-sensing parathyroid hormone receptors.

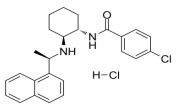


Purity: 99.91%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 10 mg, 100 mg

Calhex 231 hydrochloride

Cat. No.: HY-103320A

Calhex 231 hydrochloride is a **CaSR** inhibitor via negative allosteric modulation. Calhex 231 hydrochloride blocks Ca^{2+}-induced accumulation of [^{3}H]inositol phosphate with an **IC_{50}** of 0.39 μM in HEK293 cells.



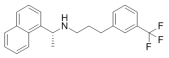
Purity: >98.0%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg

Cinacalcet

(AMG 073)

Cat. No.: HY-70037

Cinacalcet (AMG 073) is an orally active, allosteric agonist of **Ca receptor (CaR)**, used for cardiovascular disease treatment.



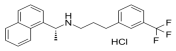
Purity: 99.94%
Clinical Data: Launched
Size: 10 mM × 1 mL, 10 mg, 50 mg, 100 mg

Cinacalcet hydrochloride

(AMG-073 hydrochloride)

Cat. No.: HY-70037A

Cinacalcet hydrochloride (AMG-073 hydrochloride) is an orally active, allosteric agonist of **Ca receptor (CaR)**, used for cardiovascular disease treatment.



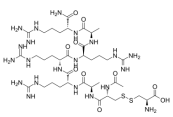
Purity: 99.98%
Clinical Data: Launched
Size: 10 mM × 1 mL, 10 mg, 50 mg, 100 mg

Etelcalcetide

(AMG 416; KAI-4169)

Cat. No.: HY-P1955

Etelcalcetide (AMG 416) is a synthetic peptide as an activator of the **calcium sensing receptor (CaSR)**. Etelcalcetide is effective in lowering parathyroid hormone (PTH) concentrations in patients receiving dialysis with secondary hyperparathyroidism receiving hemodialysis.



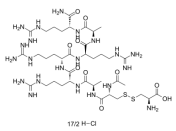
Purity: >98%
Clinical Data: Launched
Size: 1 mg, 5 mg, 10 mg, 25 mg

Etelcalcetide hydrochloride

(AMG 416 hydrochloride; KAI-4169 hydrochloride)

Cat. No.: HY-P1955A

Etelcalcetide hydrochloride (AMG 416 hydrochloride) is a synthetic peptide as an activator of the **calcium sensing receptor (CaSR)**.



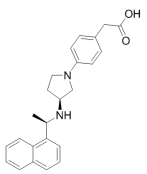
Purity: 98.85%
Clinical Data: Launched
Size: 1 mg, 5 mg, 10 mg, 25 mg

Evocalcet

(KHK7580)

Cat. No.: HY-17613

Evocalcet has an activating effect on **calcium sensing receptor** (**CaSR**) extracted from patent WO 2017061621 A1, compound A.

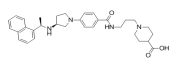


Purity: 98.52%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg

GSK3004774

Cat. No.: HY-107773

GSK3004774 is a potent, nonabsorbable agonist of **CaSR**, with an **pEC_{50}** of 7.3, 6.6 and 6.5 for human, mouse and rat CaSR, respectively. GSK3004774 shows an **EC_{50}** of 50 nM for human CaSR.



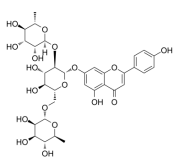
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Ligustroflavone

(Nuezhenoside)

Cat. No.: HY-N0546

Ligustroflavone, extracted from Ligustrum lucidum, is a potential candidate as **calcium-sensing receptor (CaSR)** antagonist. Ligustroflavone exhibits protective effects against diabetic osteoporosis in mice.



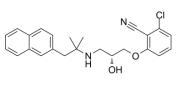
Purity: 99.41%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg

NPS-2143

(SB-262470A)

Cat. No.: HY-10007

NPS-2143 (SB-262470A), an orally active calcilytic agent, is a selective and potent **calcium ion-sensing receptor (CaSR)** antagonist.



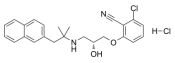
Purity: 99.42%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

Tel: 609-228-6898 Fax: 609-228-5909 Email: sales@MedChemExpress.com

NPS-2143 hydrochloride

(SB-262470A hydrochloride) **Cat. No.:** HY-10171

NPS-2143 hydrochloride (SB-262470A hydrochloride), an orally active calcilytic agent, is a selective and potent **calcium ion-sensing receptor (CaSR)** antagonist.

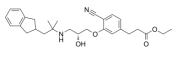


Purity: 99.96%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg

SB-423557

Cat. No.: HY-15106

SB-423557 is an orally active calcium-sensing receptor (**CaR**) antagonist (IC_{50}=520 nM), precursor of SB-423562 (IC_{50}=73 nM). SB-423557 is well tolerated in human and increases plasma concentrations of exogenous parathyroid hormone (PTH) and stimulates bone formation.

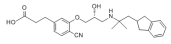


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

SB-423562

Cat. No.: HY-15105

SB-423562 is a short-acting calcium-sensing receptor **(CaR)** antagonist.

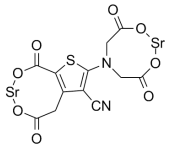


Purity: 99.88%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

Strontium Ranelate

(Distrontium renelate; S12911) **Cat. No.:** HY-17397

Strontium Ranelate (S12911) is an antiosteoporotic agent that acts by reducing bone resorption and promoting bone formation, thereby inducing a positive bone balance.

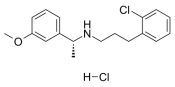


Purity: 99.16%
Clinical Data: Launched
Size: 100 mg, 500 mg

Tecalcet Hydrochloride

(R-568 (hydrochloride)) **Cat. No.:** HY-10167A

Tecalcet Hydrochloride (R 568 Hydrochloride), an orally active calcimimetic compound, allosterically and positively modulates the **calcium-sensing receptor (CaSR)**. Tecalcet Hydrochloride (R 568 Hydrochloride) increases the sensitivity to activation by extracellular Ca^{2+}.



Purity: 99.66%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg