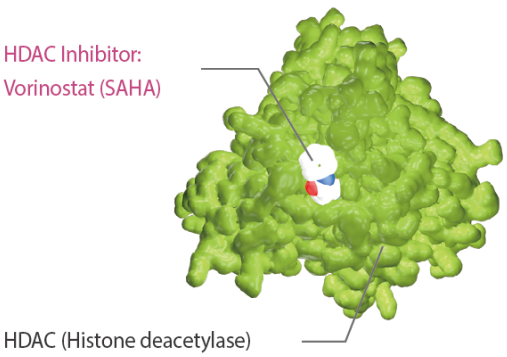
CaSR

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.

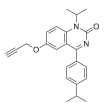
CaSR Inhibitors & Modulators

Calcium-Sensing Receptor Antagonists I

Cat. No.: HY-50713

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

Purity: 99.02%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 10 mg, 100 mg



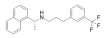
Cinacalcet

(AMG 073)

Cat. No.: HY-70037

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

Purity: 99.65%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 10 mg, 50 mg



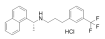
Cinacalcet hydrochloride

(AMG-073 hydrochloride; Cinacalcet)

Cat. No.: HY-70037A

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

Purity: 99.97%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg



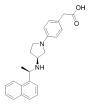
Evocalcet

(KHK7580)

Cat. No.: HY-17613

Bioactivity: 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: 10mM x 1mL in DMSO, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg



GSK3004774

Cat. No.: HY-107773

Bioactivity: 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 [1].

Purity: >98%
Clinical Data: No Development Reported
Size:

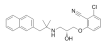
NPS-2143

(SB 262470A)

Cat. No.: HY-10007

Bioactivity: NPS-2143 is a selective antagonist of **calcium-sensing receptor (CaSR)** with an **IC_{50}** of 43 nM.

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

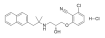


NPS-2143 hydrochloride

Cat. No.: HY-10171

Bioactivity: NPS-2143(SB 262470A) is a selective potent calcium ion-sensing receptor antagonist with IC50 of 43 and 41 nM for cytoplasmic Ca2+ concentrations and parathyroid hormone secretion, respectively.

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

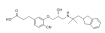


SB-423562

Cat. No.: HY-15105

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

Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg, 10 mg



Strontium Ranelate

(Distrontium renelate; S12911)

Cat. No.: HY-17397

Bioactivity: Strontium ranelate(S12911) stimulates the calcium sensing receptors (CaSR) and leads to the differentiation of pre-osteoblast to osteoblast which increases the bone formation.

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