

Certificate of Analysis

Product Name: Cinacalcet hydrochloride

Catalog No.: 6170

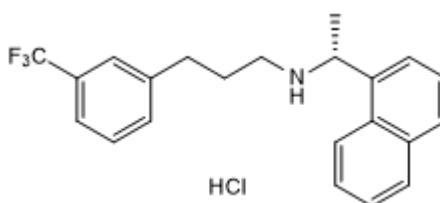
Batch No.: 1

CAS Number: 364782-34-3

IUPAC Name: *N*-[(1*R*)-1-(1-Naphthyl)ethyl]-3-[3-(trifluoromethyl)phenyl]propan-1-amine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₂F₃N.HCl
Batch Molecular Weight: 393.87
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +25 (Concentration = 2, Solvent = Methanol)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	67.09	5.89	3.56
Found	67.13	5.88	3.33

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Calcium-sensing receptor (CaSR) allosteric agonist. Activates CaSR signaling in cellular proliferation and phosphatidylinositol (PI) hydrolysis assays. Reduces serum parathyroid hormone levels in rats. Also potent CYP2D2 inhibitor (IC₅₀ = 87 nM) and L-type calcium channel blocker. Orally bioavailable.

Physical and Chemical Properties:

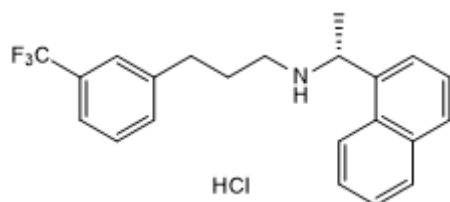
Batch Molecular Formula: C₂₂H₂₂F₃N.HCl

Batch Molecular Weight: 393.87

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Ma et al (2011) Characterization of highly efficacious allosteric agonists of the human calcium-sensing receptor. *J.Pharmacol.Exp.Ther.* **337** 275. PMID: 21239511.

Goodman et al (2002) The calcimimetic agent AMG 073 lowers plasma parathyroid hormone levels in hemodialysis patients with secondary hyperparathyroidism. *J.Am.Soc.Nephrol.* **13** 1017. PMID: 11912261.

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