Cinacalcet Hydrochloride
PRODUCT DATA SHEET
issue date 10/29/2019

Product Name: Cinacalcet Hydrochloride

Product Number: C242

CAS Number: 364782-34-3

Molecular Formula: \( \text{C}_22\text{H}_{22}\text{F}_3\text{N} \cdot \text{HCl} \)

Molecular Weight: 393.87

Form: Powder

Solubility: DMSO, Ethanol. Insoluble in water.

Source: Synthetic

Storage Conditions: -20°C

Description: Cinacalcet HCl is the hydrochloride salt of the Type II calcimimetic compound Cinacalcet. Cinacalcet is a modulator of parathyroid hormone secretion. Cinacalcet is able to increase the cytoplasmic concentration of \( \text{Ca}^{2+} \). Cinacalcet Hydrochloride is an analog of NPS R-568.

Mechanism of Action: Cinacalcet is a calcimimetic agent that increases the sensitivity of the calcium-sensing receptor to activation by extracellular calcium. It modulates the principal regulator of parathyroid hormone (PTH) secretion, namely the calcium-sensing receptor (CaR) on cells in the parathyroid gland. The CaR becomes more sensitive to extracellular calcium, and this results in a decrease in the level of calcium in serum.

References:
PMID 14593085

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