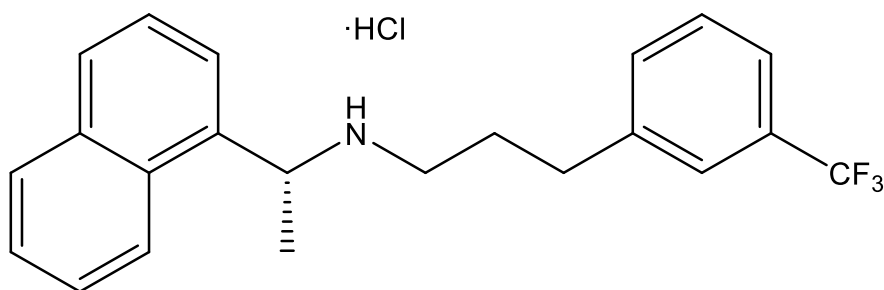


**Catalog # 10-2957**

**Cinacalcet HCl**

364782-34-3

$\alpha$ R-Methyl-N-[3-[3-(trifluoromethyl)phenyl]propyl]-1-naphthalenemethanamine hydrochloride; AMG 073; KRN 1493;  
Mimpara; Sensipar  
Lot # R105728



Cinacalcet is a calcimimetic that allosterically activates the calcium-sensing receptor (CaSR;  $EC_{50}$  = 79.4 nM in HEK 293T cells expressing CaSR).<sup>1-3</sup> It lowers plasma parathyroid hormone in hemodialysis patients with secondary hyperparathyroidism.<sup>4</sup> Cinacalcet has been used to treat parathyroid carcinoma.<sup>5</sup>

- 1) Filapanti *et al.* (2013), *Pharmacology of the calcium sensing receptor*; Clin. Cases Miner. Bone Metab., **10** 162
- 2) Ma *et al.* (2011), *Characterization of highly efficacious allosteric agonists of the human calcium-sensing receptor*; J. Pharmacol. Exp. Ther., **337** 275
- 3) Nemeth (2004), *Calcimimetic and calcilytic drugs: just for parathyroid cells?*; Cell Calcium, **35** 283
- 4) 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
- 5) Lumachi *et al.* (2006), *Parathyroid cancer: etiology, clinical presentation and treatment*; Anticancer Res., **26** 4803

**PHYSICAL DATA**

Molecular Weight:	393.88
Molecular Formula:	C <sub>22</sub> H <sub>22</sub> F <sub>3</sub> N
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (50 mg/ml); Water (5 mg/ml with warming)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or water may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.