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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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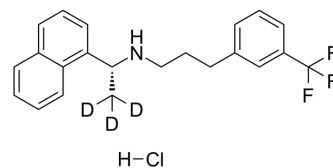
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Cinacalcet-d₃ hydrochloride

Cat. No.:	HY-70037AS
Molecular Formula:	C ₂₂ H ₂₀ D ₃ ClF ₃ N
Molecular Weight:	396.89
Target:	CaSR; Endogenous Metabolite
Pathway:	GPCR/G Protein; Metabolic Enzyme/Protease
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (125.98 mM; Need ultrasonic and warming)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	2.5196 mL	12.5979 mL	25.1959 mL	
5 mM	0.5039 mL	2.5196 mL	5.0392 mL	
10 mM	0.2520 mL	1.2598 mL	2.5196 mL	

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Cinacalcet-d₃ (hydrochloride) is the deuterium labeled Cinacalcet (hydrochloride). Cinacalcet hydrochloride (AMG-073 hydrochloride) is an orally active, allosteric agonist of Ca receptor (CaR), used for cardiovascular disease treatment.

In Vitro

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. Colloton M, et al. Cinacalcet HCl attenuates parathyroid hyperplasia in a rat model of secondary hyperparathyroidism. *Kidney Int.* 2005 Feb;67(2):467-76.;D.A. Bushinsky, et al. Effect of cinacalcet on urine calcium excretion and supersaturation in genetic

Caution: Product has not been fully validated for medical applications. For research use only.

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