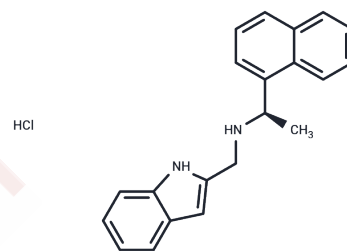


Calindol hydrochloride

Chemical Properties

CAS No. :	729610-18-8
Formula:	C ₂₁ H ₂₁ ClN ₂
Molecular Weight:	336.86
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Calindol hydrochloride is a potent orthosteric modulator (EC ₅₀ : 132 nM) of the putative calcium-calcium-sensitive receptor (CaSR), inhibits Pi-induced VC, and delays the progression of calcification in vascular smooth muscle cells.
Targets(IC ₅₀)	CaSR

Solubility Information

Solubility	DMSO: 80 mg/mL (237.49 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9686 mL	14.843 mL	29.6859 mL
5 mM	0.5937 mL	2.9686 mL	5.9372 mL
10 mM	0.2969 mL	1.4843 mL	2.9686 mL
50 mM	0.0594 mL	0.2969 mL	0.5937 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Lionel Kiefer, et al. Design and synthesis of calindol derivatives as potent and selective calcium sensing receptor agonists. *Bioorg Med Chem*. 2016 Feb 15;24(4):554-69.

Albane Kessler, et al. N2-benzyl-N1-(1-(1-naphthyl)ethyl)-3-phenylpropane-1,2-diamines and conformationally restrained indole analogues: development of calindol as a new calcimimetic acting at the calcium sensing receptor. *Bioorg Med Chem Lett*. 2004 Jun 21;14(12):3345-9.

Harry Z E Greenberg, et al. The calcilytics Calhex-231 and NPS 2143 and the calcimimetic Calindol reduce vascular reactivity via inhibition of voltage-gated Ca²⁺ channels. *Eur J Pharmacol*. 2016 Nov 15;791:659-668.

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