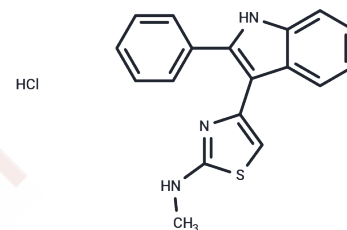


VA-K-14 hydrochloride

Chemical Properties

CAS No. :	1171341-19-7
Formula:	C ₁₈ H ₁₆ ClN ₃ S
Molecular Weight:	341.86
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	VA-K-14 hydrochloride(VAK14 HCl) is a selective thyrotropin receptor (TSHR) antagonist (IC ₅₀ = 12.3 μM) that inhibits TSHR stimulation by serum and monoclonal TSHR-stimulating antibodies from patients with GD and abrogates TSHR signaling.
Targets(IC ₅₀)	TSH Receptor

Solubility Information

Solubility	DMSO: 55 mg/mL (160.88 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	2.9252 mL	14.6259 mL	29.2517 mL
5 mM	0.585 mL	2.9252 mL	5.8503 mL
10 mM	0.2925 mL	1.4626 mL	2.9252 mL
50 mM	0.0585 mL	0.2925 mL	0.585 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

Latif R, et al. TSH Receptor Signaling Abrogation by a Novel Small Molecule. Front Endocrinol (Lausanne). 2016;7: 130.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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