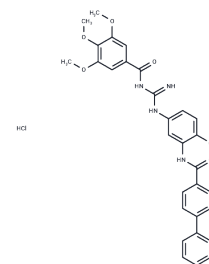


MRT-83 hydrochloride

Chemical Properties

CAS No. :	1359944-60-7
Formula:	C ₃₁ H ₃₁ ClN ₄ O ₅
Molecular Weight:	575.06
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	MRT-83 (hydrochloride) is a potent antagonist of the Smoothed (Smo) receptor, effectively inhibiting the Hedgehog (Hh) signaling pathway and BODIPY-cyclopamine binding to human Smo. With its potential applications in the study of cancer disease, MRT-83 (hydrochloride) demonstrates promising prospects for research purposes.
Targets(IC50)	Others,Smo
In vitro	MRT-83 (hydrochloride) (compound 86) exhibits biological activity with IC50 values of 15 nM in Shh-light2 cell assays and 11 nM in C3H10T1/2 cell assays[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7389 mL	8.6947 mL	17.3895 mL
5 mM	0.3478 mL	1.7389 mL	3.4779 mL
10 mM	0.1739 mL	0.8695 mL	1.7389 mL
50 mM	0.0348 mL	0.1739 mL	0.3478 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

Solinas A, et al. Acylthiourea, acylurea, and acylguanidine derivatives with potent hedgehog inhibiting activity. J Med Chem. 2012;55(4):1559-1571.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481