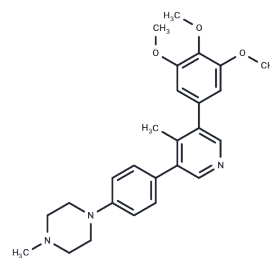


ALK2-IN-6

Chemical Properties

CAS No. :	2600795-23-9
Formula:	C ₂₆ H ₃₁ N ₃ O ₃
Molecular Weight:	433.54
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	ALK2-IN-6 (Compound 14a) is a and CNS-penetrant small molecule inhibitor target the activin receptor-like kinase 2 (ALK2/ACVR1) protein with a measured half-maximal inhibitory concentration (IC ₅₀) of 9 nM in biochemical assays.
Targets(IC ₅₀)	ALK
In vitro	In biochemical assays, ALK2-IN-6 inhibited ALK2 kinase activity with an IC ₅₀ of 1.9 nM and demonstrated high selectivity over TGF-betaR1 [1].
In vivo	In mouse pharmacokinetic studies, oral administration of ALK2-IN-6 at 10 mg/kg resulted in robust systemic exposure and high brain permeability [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3066 mL	11.533 mL	23.0659 mL
5 mM	0.4613 mL	2.3066 mL	4.6132 mL
10 mM	0.2307 mL	1.1533 mL	2.3066 mL
50 mM	0.0461 mL	0.2307 mL	0.4613 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

Smil D, et al. Leveraging an Open Science Drug Discovery Model to Develop CNS-Penetrant ALK2 Inhibitors for the Treatment of Diffuse Intrinsic Pontine Glioma. J Med Chem. 2020 Sep 10;63(17):10061-10085.

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