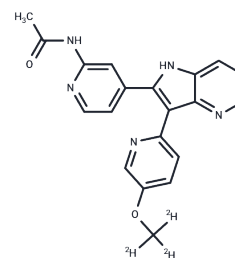


TGFβRI-IN-1

Chemical Properties

CAS No. :	1950628-94-0
Formula:	C ₂₀ H ₁₄ D ₃ N ₅ O ₂
Molecular Weight:	362.4
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	TGFβRI-IN-1 is an oral active and selective inhibitor of TGFβ receptor type I (TGFβRI) kinase (IC ₅₀ values of 2 nM and 7.6 μM for TGFβRI and TGFβRII, respectively).
Targets(IC ₅₀)	TGF-beta/Smad
In vitro	various cellular responses regulated by Transforming Growth Factor-β signaling such as cell proliferation, differentiation, cell migration and cell death. TGF-β has at least three isoforms TGF-β1, TGF-β2 and TGF-β3. TGF-β1 is two well-conserved single membrane serine/threonine kinase type I (ALK5). ALK5 inhibitors can be used for treating fibrotic disease, tumor, inflammatory disease, and autoimmune disease.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7594 mL	13.7969 mL	27.5938 mL
5 mM	0.5519 mL	2.7594 mL	5.5188 mL
10 mM	0.2759 mL	1.3797 mL	2.7594 mL
50 mM	0.0552 mL	0.2759 mL	0.5519 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

Yong Zhang, et al. Discovery of 4-Azaindole Inhibitors of TGFβRI as Immuno-oncology Agents. ACS Med. Chem. Lett.20189111117-1122.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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