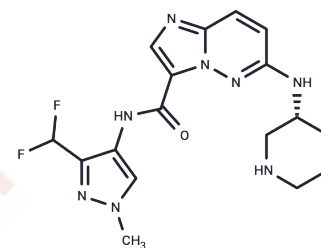


IRAK4-IN-17

Chemical Properties

CAS No. :	2183503-33-3
Formula:	C ₁₇ H ₂₀ F ₂ N ₈ O
Molecular Weight:	390.39
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	IRAK4-IN-17 (Compound 5) is a highly potent IRAK4 inhibitor with an IC ₅₀ value of 1.3 nM [1], and it is particularly valuable for research on large B-cell lymphoma (DLBCL) [1].
Targets(IC ₅₀)	Others,NF-κB,IRAK
In vitro	IRAK4-IN-17, at concentrations ranging from 0.7 to 40.1 μM over 72 hours, selectively inhibits OCI-LY10 and TMD8 cell lines harboring the MYD88 L265P mutation. At a lower concentration range of 0.3 to 10 μM for 2 hours, it targets the IRAK4 signaling pathway, reducing the viability of DLBCL (Diffuse Large B-Cell Lymphoma) cells. The compound exhibits varying cytotoxic effects, with IC ₅₀ values of 0.7 μM and 1.2 μM against OCI-LY10 and TMD8 cells, respectively, indicating its potent suppression capability, whereas it displays diminished effectiveness on Ramos and HT cell lines with wild-type MYD88, evidenced by IC ₅₀ values of 11.4 μM and 40.1 μM. Western Blot analysis further supports these findings by showing inhibition of IRAK4 phosphorylation and the downstream molecules, IKKβ and NF-κB transcription factor (p65), in OCI-LY10 and TMD8 cells, confirming the compound's targeted mechanistic action.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5615 mL	12.8077 mL	25.6154 mL
5 mM	0.5123 mL	2.5615 mL	5.1231 mL
10 mM	0.2562 mL	1.2808 mL	2.5615 mL
50 mM	0.0512 mL	0.2562 mL	0.5123 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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