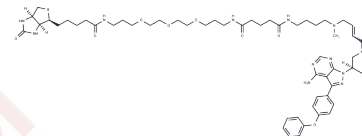


Ibrutinib-biotin

Chemical Properties

CAS No. :	1599432-18-4
Formula:	C ₅₆ H ₈₀ N ₁₂ O ₉ S
Molecular Weight:	1097.39
Storage:	Keep away from direct sunlight 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	Ibrutinib-biotin, a probe consisting of Ibrutinib linked to biotin via a long-chain linker, has an IC ₅₀ of 0.755-1.02 nM for BTK.
Targets(IC ₅₀)	Others,BTK,PROTAC Linker
In vitro	Ibrutinib-biotin (Compound 1-5) is a probe composed of Ibrutinib, a TEC family kinase inhibitor, connected to biotin through a long-chain linker. The TEC family includes five kinases: TEC, BTK (Bruton's Tyrosine Kinase), ITK (interleukin-2-inducible T-cell kinase) /EMT/TSK, BMX, and TXK/RLK, which are involved in phosphotyrosine- and phospholipid-mediated signaling pathways. These kinases, notably prevalent in hematopoietic tissues, are crucial for the proliferation and differentiation of blood cells [1].

Solubility Information

Solubility	DMSO: 50 mg/mL (45.56 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 2.5 mg/mL (2.28 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9113 mL	4.5563 mL	9.1125 mL
5 mM	0.1823 mL	0.9113 mL	1.8225 mL
10 mM	0.0911 mL	0.4556 mL	0.9113 mL
50 mM	0.0182 mL	0.0911 mL	0.1823 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

Betty Y. CHANG, et al. Companion diagnostics for tec family kinase inhibitor therapy. WO 2014059368 A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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