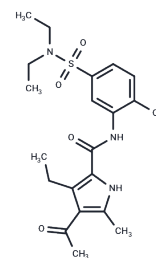


XD14

Chemical Properties

CAS No. : 1370888-71-3
 Formula: C₂₀H₂₇N₃O₅
 Molecular Weight: 421.51
 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	XD14 is an inhibitor of BET bromodomain (Kd of 160 nM, 170 nM, 380 nM, 490 nM, 830 nM and 850 nM for BRD4(1), BRD2(1), BRD3(1), BRD3(2), BRD2(2) and BRD4(2), respectively).
Targets(IC50)	Epigenetic Reader Domain

Solubility Information

Solubility	DMSO: 4.22 mg/mL (10.01 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: 1 mg/mL (2.37 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	2.3724 mL	11.8621 mL	23.7242 mL
5 mM	0.4745 mL	2.3724 mL	4.7448 mL
10 mM	0.2372 mL	1.1862 mL	2.3724 mL
50 mM	0.0474 mL	0.2372 mL	0.4745 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

Daqiang P , Michel K , Lucas W , et al. Metabolic Response to XD14 Treatment in Human Breast Cancer Cell Line MCF-7[J]. International Journal of Molecular Ences, 2016, 17(10).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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