Data Sheet (Cat.No.T12338)

TargetMol

OXFBD04

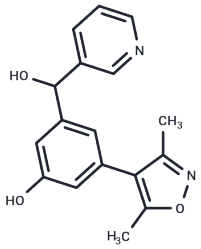
Chemical Properties

CAS No. : 2231747-03-6

Formula: C17H16N2O3

Molecular Weight: 296.32

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	OXFBD04 is a potent and selective BRD4 inhibitor (IC50= 166 nM), a BET bromodomain ligand with modest affinity for the CREBBP bromodomain, and exhibits anti-cancer activity.
Targets(IC50)	Epigenetic Reader Domain
In vitro	OXFBD04 (0.01-100 μM) inhibits the cell growth of cancer cell lines. In MCF7 breast cancer cells, OXFBD04 (10μM) induces MYC suppression[1].
In vivo	OXFBD04 has optimized physicochemical properties (LE = 0.43; LLE = 5.74; SFI = 5.96), and greater metabolic stability (t1/2 = 388min, CLint = 3.57 μL/min/mg)[1].

Solubility Information

Solubility	DMSO: 225 mg/mL (759.31 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: 5 mg/mL (16.87 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3747 mL	16.8737 mL	33.7473 mL
5 mM	0.6749 mL	3.3747 mL	6.7495 mL
10 mM	0.3375 mL	1.6874 mL	3.3747 mL
50 mM	0.0675 mL	0.3375 mL	0.6749 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

Jennings LE, et al. BET bromodomain ligands: Probing the WPF shelf to improve BRD4 bromodomain affinity and metabolic stability. Bioorg Med Chem. 2018 Jul 15;26(11):2937-2957.

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