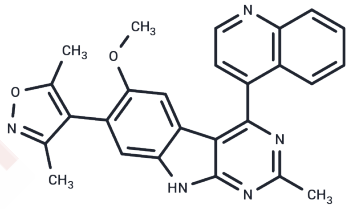
Data Sheet (Cat.No.T14910)

TargetMol

CD161

Chemical Properties



CAS No. : 1627716-22-6

Formula: C26H21N5O2

Molecular Weight: 435.48

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	CD161 is a potent, selective, and orally bioavailable BET bromodomain inhibitor (IC50s: 28.2 nM and 7.2 nM for BRD4 BD1 and BRD4 BD2) with good anticancer activity.
Targets(IC50)	Others,Epigenetic Reader Domain
In vitro	CD161 (NKR-P1A) (30-3000 nM; 1 hour) is very effective in inducing rapid down-regulation of c-Myc at as early as the 1 h time point and in a dose-dependent manner. CD161 has Kis of 8.2 nM and 1.4 nM for BRD4 BD1 and BRD4 BD2, respectively.
In vivo	CD161 (5 mg/kg (iv), 25 mg/kg (po); 0-24 hours) has the t1/2 of 2.4 hours (iv) and 2.9 hours (po) for rat; the Cmax of 7333 ng/mL (po) for rat. CD161 (po; 20, 40 mg/kg/day; 45 days) achieves essentially complete tumor growth inhibition. The t1/2 of mice is 0.5 hours (iv) and 1.60 hours (po); the Cmax of mice is 983.1 ng/mL (po).

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2963 mL	11.4816 mL	22.9632 mL
5 mM	0.4593 mL	2.2963 mL	4.5926 mL
10 mM	0.2296 mL	1.1482 mL	2.2963 mL
50 mM	0.0459 mL	0.2296 mL	0.4593 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

Zhao Y, et al. Structure-Based Discovery of 4-(6-Methoxy-2-methyl-4-(quinolin-4-yl)-9H-pyrimido[4,5-b]indol-7-yl)-3,5-dimethylisoxazole (CD161) as a Potent and Orally Bioavailable BET Bromodomain Inhibitor. J Med Chem. 2017 May 11;60(9):3887-3901.

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