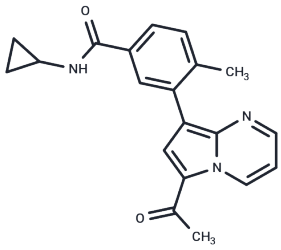
Data Sheet (Cat.No.T13190)

TargetMol

TP-472

Chemical Properties



CAS No. : 2079895-62-6

Formula: C20H19N3O2

Molecular Weight: 333.38

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	TP-472 is a selective inhibitor of BRD9 (Kd: 33 nM).
Targets(IC50)	Apoptosis,Epigenetic Reader Domain
In vitro	TP-472 has a high potency for BRD9 with Kd of 33 nM and BRD7 with Kd of 0.34 μM, with >30-fold selectivity over other Brds[1]. TP-472 (1 μM, 3 μM; 24-216 hours) yields concentration-dependent growth defects in ESCs[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9996 mL	14.9979 mL	29.9958 mL
5 mM	0.5999 mL	2.9996 mL	5.9992 mL
10 mM	0.300 mL	1.4998 mL	2.9996 mL
50 mM	0.060 mL	0.300 mL	0.5999 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

Moustakim M, et al. Chemical probes and inhibitors of bromodomains outside the BET family. Medchemcomm. 2016 Dec 7;7(12):2246-2264.

Gatchalian J, et al. A non-canonical BRD9-containing BAF chromatin remodeling complex regulates naive pluripotency in mouse embryonic stem cells. Nat Commun. 2018 Dec 3;9(1):5139.

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