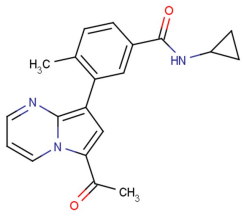
Data Sheet (Cat.No.T13190)

TargetMol
A DRUG SCREENING EXPERT

TP-472

Chemical Properties



CAS No.:	2079895-62-6
Formula:	C20H19N3O2
Molecular Weight:	333.38
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	TP-472 is a selective inhibitor of BRD9 (Kd: 33 nM).
Targets(IC_{50})	BRD9: (kd)33 nM
In vitro	TP-472 has high potency for BRD9 (Kd: 33 nM) and BRD7 (Kd: 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].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0 mL	14.998 mL	29.996 mL
5 mM	0.6 mL	3.0 mL	5.999 mL
10 mM	0.3 mL	1.5 mL	3.0 mL
50 mM	0.06 mL	0.3 mL	0.6 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

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

2. 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.

Inhibitors · Natural Compounds · Compound Libraries

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