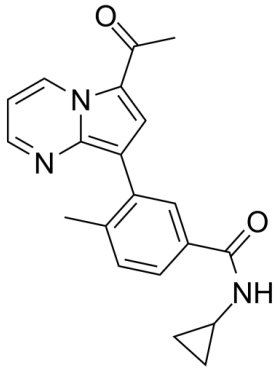
Data Sheet

Product Name:	TP-472
Cat. No.:	CS-0019656
CAS No.:	2079895-62-6
Molecular Formula:	$C_{20}H_{19}N_3O_2$
Molecular Weight:	333.38
Target:	Epigenetic Reader Domain
Pathway:	Epigenetics
Solubility:	DMSO : 100 mg/mL (299.96 mM; ultrasonic and warming and heat to 60°C)



BIOLOGICAL ACTIVITY:

TP-472 is a selective **BRD7/9** inhibitor, with **K_D**s of 0.34 μM and 33 nM for BRD7 and BRD9, respectively[1][2]. IC50 & Target: Kd: 33 nM (BRD9)[1] **In Vitro:** TP-472 has a high potency for BRD9 (K_d= 33 nM) and BRD7 (K_d= 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].

References:

[1]. 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.

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

CAIndexNames:

Benzamide, 3-(6-acetylpyrrolo[1,2-a]pyrimidin-8-yl)-N-cyclopropyl-4-methyl-

SMILES:

O=C(C)C1=CC(C2=C(C)C=CC(C(NC3CC3)=O)=C2)=C4N=CC=CN41

Caution: Product has not been fully validated for medical applications. For research use only.

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