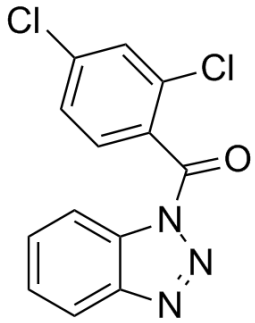
ITSA-1



Cat. No.:	HY-100508		
CAS No.:	200626-61-5		
Molecular Formula:	$C_{13}H_7Cl_2N_3O$		
Molecular Weight:	292.12		
Target:	HDAC		
Pathway:	Cell Cycle/DNA Damage; Epigenetics		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

Solvent & Solubility

In Vitro

DMSO : ≥ 32 mg/mL (109.54 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.4233 mL	17.1163 mL	34.2325 mL
	5 mM	0.6847 mL	3.4233 mL	6.8465 mL
	10 mM	0.3423 mL	1.7116 mL	3.4233 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

ITSA-1 is membrane permeable and specifically suppresses TSA inhibition of HDAC (histone deacetylase), but not other HDAC inhibitors. target□TSA.In vitro: ITSA1 (50 M) suppresses TSA-induced (300 nM) histone and tubulin acetylation in A549 cells. In vitro HDAC assay using total HeLa cell lysate as the source of enzymatic activity. ITSA1 does not affect HDAC activity in the presence or absence of TSA. ITSA1 Suppresses TSA-Activated Transcription in Murine ES Cells.

IC_{50} & Target

HDAC

REFERENCES

[1]. Koeller KM et al. Chemical genetic modifier screens: small molecule trichostatin suppressors as probes of intracellular histoneand tubulin acetylation.

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