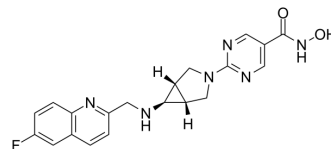


Nanatinostat

Cat. No.:	HY-13432
CAS No.:	1256448-47-1
Molecular Formula:	C ₂₀ H ₁₉ FN ₆ O ₂
Molecular Weight:	394.4
Target:	HDAC
Pathway:	Cell Cycle/DNA Damage; Epigenetics
Storage:	-20°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (126.77 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.5355 mL	12.6775 mL	25.3550 mL
		5 mM	0.5071 mL	2.5355 mL	5.0710 mL
		10 mM	0.2535 mL	1.2677 mL	2.5355 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.34 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (6.34 mM); Suspended solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	Nanatinostat (CHR-3996) is a potent, class I selective and orally active histone deacetylase (HDAC) inhibitor with an IC ₅₀ of 8 nM ^[1] .
IC ₅₀ & Target	IC ₅₀ 8 nM (HDAC) ^[1]

CUSTOMER VALIDATION

- Cancer Res. 2022 Dec 16;82(24):4542-4554.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Moffat D, et al. Discovery of 2-(6-[[[6-fluoroquinolin-2-yl)methyl]amino]bicyclo[3.1.0]hex-3-yl)-N-hydroxypyrimidine-5-carboxamide (CHR-3996), a class I selective orally active histone deacetylase inhibitor. J Med Chem. 2010 Dec 23;53(24):8663-78.

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

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