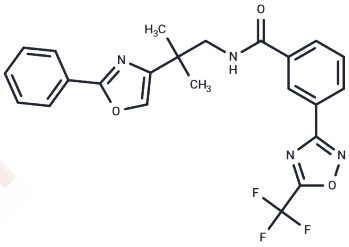
Data Sheet (Cat.No.T3983)

TargetMol

TMP195

Chemical Properties



CAS No. : 1314891-22-9

Formula: C23H19F3N4O3

Molecular Weight: 456.42

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	TMP195 (TFMO 2) is a selective class IIa histone deacetylase (HDAC) inhibitor.
Targets(IC50)	HDAC

Solubility Information

Solubility	DMSO: 250 mg/mL (547.74 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (21.91 mM),Suspension. 10% DMSO+90% Saline: < 10 mg/mL (21.91 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.191 mL	10.9548 mL	21.9096 mL
5 mM	0.4382 mL	2.191 mL	4.3819 mL
10 mM	0.2191 mL	1.0955 mL	2.191 mL
50 mM	0.0438 mL	0.2191 mL	0.4382 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

Lobera M., et al. Selective class IIa histone deacetylase inhibition via a nonchelating zinc-binding group. Nat Chem Biol. 2013 May;9(5):319-25.

Yue Y, Li F, Li Y, et al. Biomimetic Nanoparticles Carrying a Repolarization Agent of Tumor-Associated Macrophages for Remodeling of the Inflammatory Microenvironment Following Photothermal Therapy. ACS nano. 2021, 15(9): 15166-15179.

Dang Z, Li H, Xue S, et al.Histone deacetylase 9-mediated phenotypic transformation of vascular smooth muscle cells is a potential target for treating aortic aneurysm/dissection.Biomedicine & Pharmacotherapy.2024, 173: 116396.