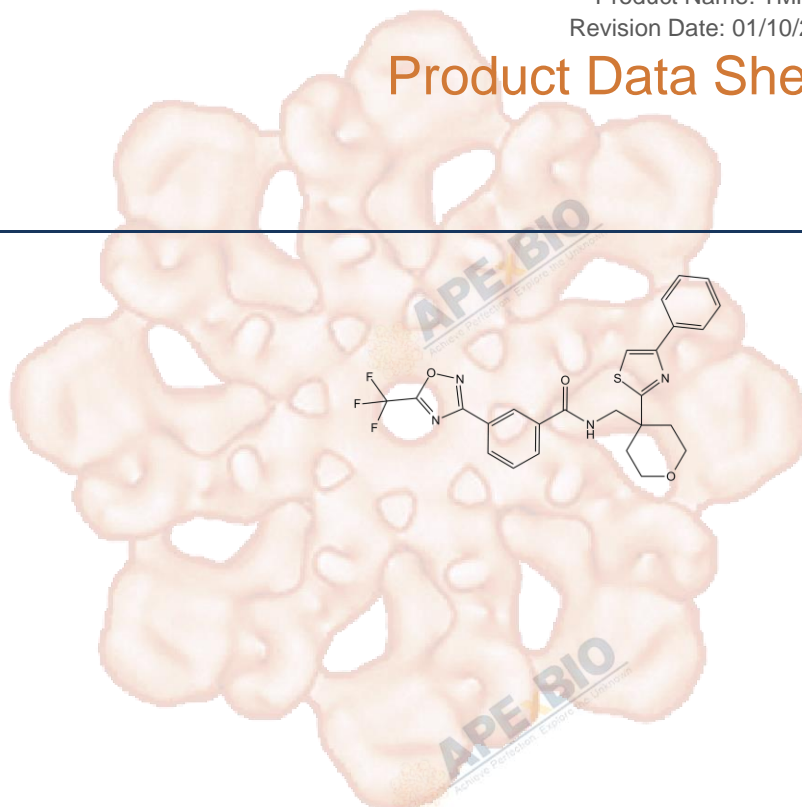


Product Data Sheet

TMP269

Cat. No.:	A8806
CAS No.:	1314890-29-3
Formula:	C ₂₅ H ₂₁ F ₃ N ₄ O ₃ S
M.Wt:	514.52
Synonyms:	TMP 269;TMP-269
Target:	DNA Damage/DNA Repair
Pathway:	HDAC
Storage:	Store at -20°C



Solvent & Solubility

In Vitro

 ≥ 23 mg/mL in DMSO; insoluble in H₂O; ≥ 21 mg/mL in EtOH with ultrasonic

Preparing Stock Solutions	Mass			
	Solvent Concentration	1mg	5mg	10mg
	1 mM	1.9436 mL	9.7178 mL	19.4356 mL
	5 mM	0.3887 mL	1.9436 mL	3.8871 mL
	10 mM	0.1944 mL	0.9718 mL	1.9436 mL

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

Biological Activity

Shortsummary

HDAC 4/5/7/9 inhibitor

 IC₅₀ & Target

23 nM (HDAC9), 43 nM (HDAC7), 97 nM (HDAC5), 157 nM (HDAC4)

In Vitro

Cell Viability Assay

Cell Line:	IEC-18 cells
Preparation method:	The solubility of this compound in DMSO is >23mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	4 μM, 18 h, 37°C

	Applications:	In IEC-18 intestinal epithelial cells, TMP269 potently inhibited [3H]thymidine incorporation induced by ANG II with the EC50 of ~1.5 μM. TMP269 completely prevented the striking shift from the G0/G1 to the G2/M phase stimulation by ANG II.
In Vivo	Animal experiment	
	Applications:	
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Sinnott-Smith J, Ni Y, Wang J, et al. Protein kinase D1 mediates class IIa histone deacetylase phosphorylation and nuclear extrusion in intestinal epithelial cells: role in mitogenic signaling[J]. American Journal of Physiology-Cell Physiology, 2014, 306(10): C961-C971.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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