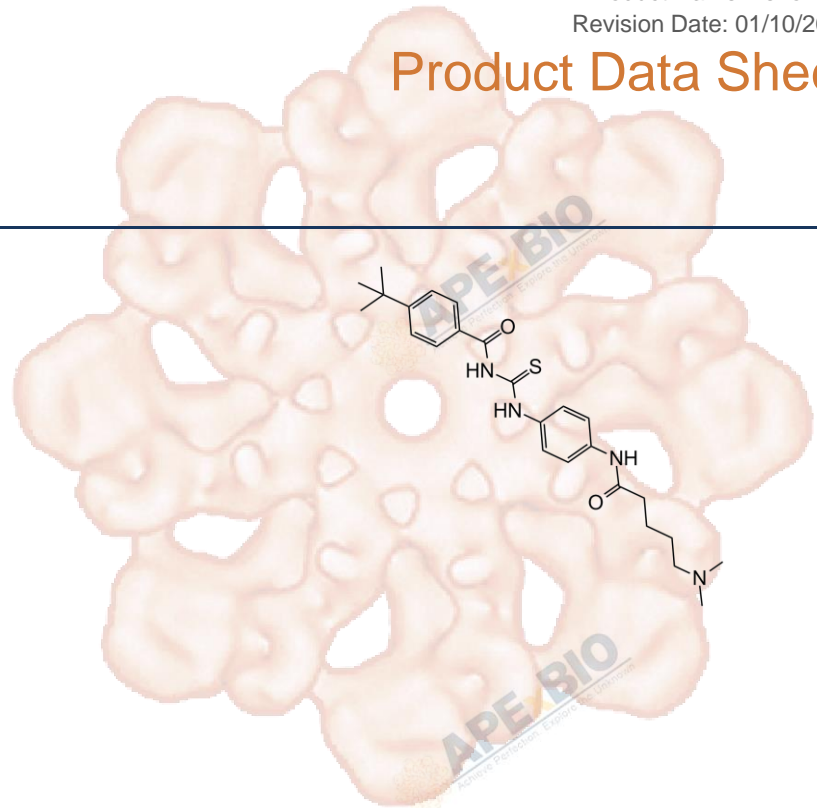


Product Data Sheet

Tenovin-6

Cat. No.:	A8302
CAS No.:	1011557-82-6
Formula:	C ₂₅ H ₃₄ N ₄ O ₂ S
M.Wt:	454.6
Synonyms:	
Target:	Chromatin/Epigenetics
Pathway:	Sirtuin
Storage:	Store at -20° C



Solvent & Solubility

≥22.75 mg/mL in DMSO; insoluble in H₂O; ≥2.62 mg/mL in EtOH with ultrasonic

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	2.1997 mL	10.9987 mL	21.9974 mL
	5 mM	0.4399 mL	2.1997 mL	4.3995 mL
	10 mM	0.2200 mL	1.0999 mL	2.1997 mL

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

Biological Activity

Shortsummary	SIRT inhibitor and p53 activator	
IC ₅₀ & Target	21 μM (SIRT1), 10 μM (SIRT2), 67 μM (SIRT3)	
In Vitro	Cell Viability Assay	
	Cell Line:	CLL cells
	Preparation method:	The solubility of this compound in DMSO is >10 mM. 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:	1, 5 or 10 μM; 8 or 24 hrs

	Applications:	After 24-hr culture, Tenovin-6 showed a significant dose-dependent cytotoxic effect to CLL cells. In CLL cells treated with Tenovin-6 (10 μ M) for 8 hrs, the metabolic activity reduced substantially, which was similar to the effects of Fludarabine (3 μ M).
In Vivo	Animal experiment	
	Animal models:	Female SCID mice bearing ARN8 melanomas
	Dosage form:	50 mg/kg/day; i.p.
	Applications:	In female SCID mice bearing ARN8 melanomas, Tenovin-6 significantly reduced tumor growth (day 6, p = 0.045; day 11, p = 0.0179; days 13 and 15, p = 0.0247).
	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

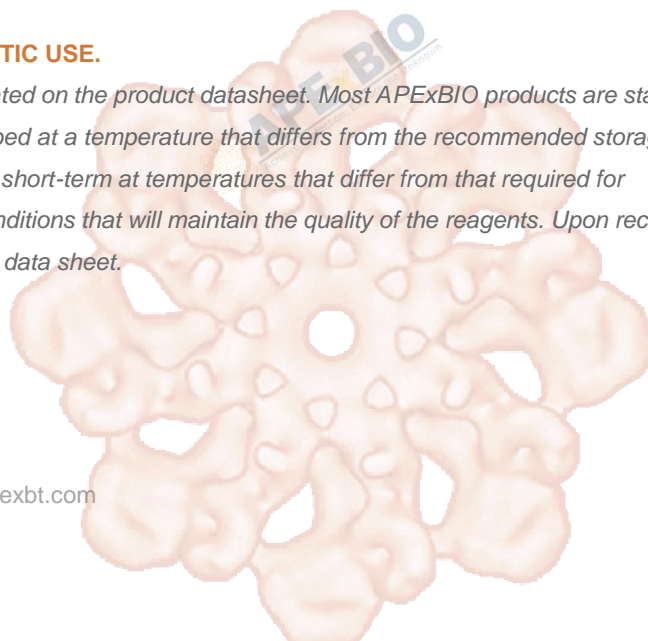
- [1]. Lain S, Hollick JJ, Campbell J, et al. Discovery, in vivo activity, and mechanism of action of a small-molecule p53 activator. *Cancer Cell*, 2008, 13(5): 454-463.
- [2]. MacCallum SF, Groves MJ, James J, et al. Dysregulation of autophagy in chronic lymphocytic leukemia with the small-molecule Sirtuin inhibitor Tenovin-6. *Scientific Reports*, 2013, 3: 1275.

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 APEX BIO 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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