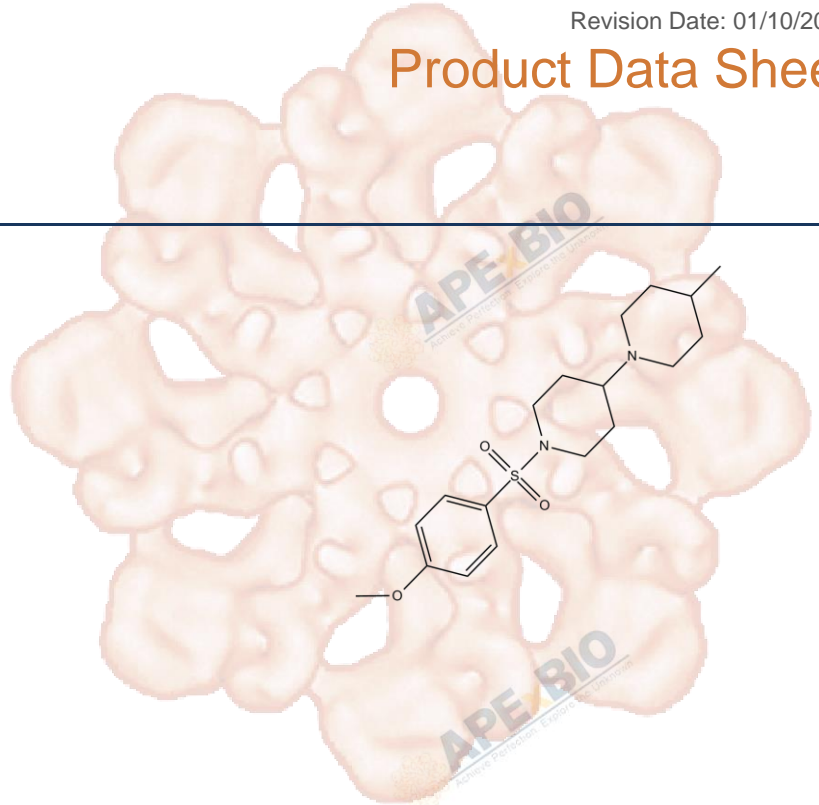


Product Data Sheet

TASIN-1

Cat. No.:	A8738
CAS No.:	792927-06-1
Formula:	C18H28N2O3S
M.Wt:	352.49
Synonyms:	
Target:	Apoptosis
Pathway:	APC
Storage:	Store at -20°C



Solvent & Solubility

≥35.2 mg/mL in DMSO; ≥12.02 mg/mL in EtOH with ultrasonic; ≥2.45 mg/mL in H₂O with gentle warming and ultrasonic

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	2.8370 mL	14.1848 mL	28.3696 mL
	5 mM	0.5674 mL	2.8370 mL	5.6739 mL
	10 mM	0.2837 mL	1.4185 mL	2.8370 mL

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

Biological Activity

Shortsummary

inhibitor of mutant adenomatous polyposis coli (APC)

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	HCT116 (WT APC) and DLD1 (truncated APC1417) cell lines
Preparation method:	This compound is soluble in DMSO. 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:	0.0001-100 µM; 48 h
	Applications:	TASIN-1 exhibited potent and selective toxicity toward DLD1 cells with IC50 value of 70 nM. TASIN-1 inhibited soft agar growth only in DLD1 cells. When cultured in medium with 0.1% serum for 7 days, HCT116 cells showed similar sensitivity to TASIN-1 as DLD1 cells.
In Vivo	Animal experiment	
	Animal models:	genetically engineered colorectal cancer (CRC) mouse model
	Dosage form:	20 mg/kg twice per week for 90 days or 40 mg/kg per week for 100 days (dissolved in 0.2 ml of solvent containing 10% DMSO and 10% cremophor); intraperitoneal injection
	Applications:	In genetically engineered colorectal cancer (CRC) mouse model, TASIN-1 had a long retention time in mouse large intestinal tissue. TASIN-1 significantly reduced tumor formation in the colons. TASIN-1 did not induce obvious histological changes in livers, kidneys, or spleens of treated animals.
	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] Lu Zhang, Panayotis C. Theodoropoulos, Ugur Eskiocak, et al. Selective targeting of mutant adenomatous polyposis coli (APC) in colorectal cancer. Science Translational Medicine 19 Oct 2016: Vol. 8, Issue 361, pp. 361ra140.

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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