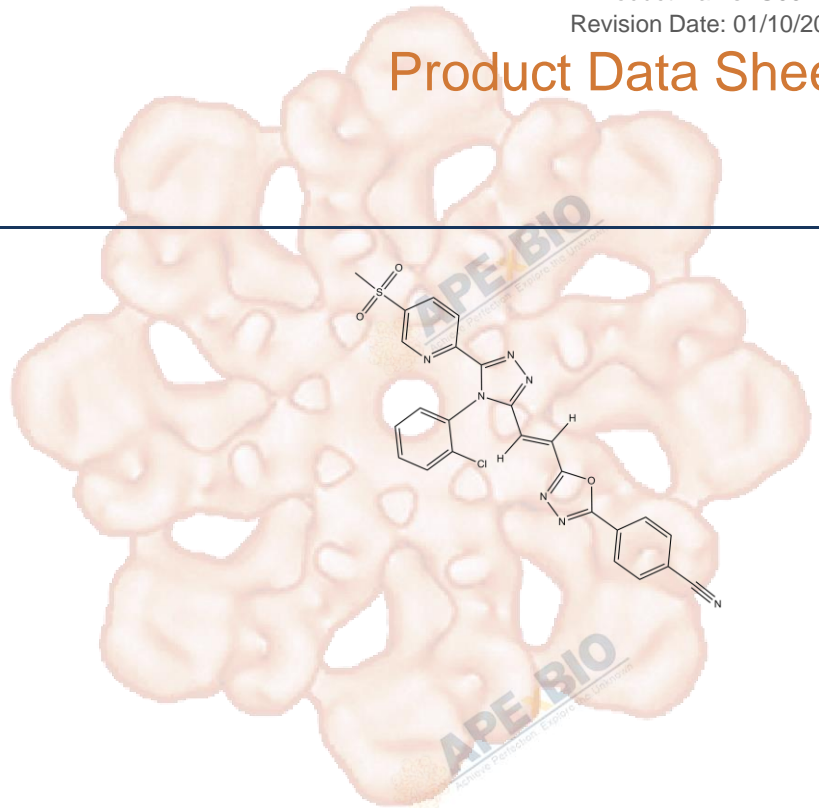


Product Data Sheet

G007-LK

Cat. No.:	B5830
CAS No.:	1380672-07-0
Formula:	C ₂₅ H ₁₆ CIN ₇ O ₃ S
M.Wt:	529.96
Synonyms:	
Target:	DNA Damage/DNA Repair
Pathway:	tankyrase
Storage:	Store at -20°C



Solvent & Solubility

≥26.5 mg/mL in DMSO; insoluble in H₂O; insoluble in EtOH

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	1.8869 mL	9.4347 mL	18.8693 mL
	5 mM	0.3774 mL	1.8869 mL	3.7739 mL
	10 mM	0.1887 mL	0.9435 mL	1.8869 mL

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

Biological Activity

Shortsummary

tankyrase 1/2 inhibitor

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	COLO-320DM cells lines
Preparation method:	The solubility of this compound in DMSO is >26.5mg/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:	0.2 μmol/L for 7 to 13 days

	Applications:	G007-LK inhibits cell-cycle progression, reduces colony formation, and induces differentiation, suggesting that b-catenin–dependent maintenance of an undifferentiated state may be blocked by tankyrase inhibition.
In Vivo	Animal experiment	
	Animal models:	Xenograft COLO-320DM tumors mice
	Dosage form:	20, 40, 60 mg/kg, IP, daily for 21 days
	Applications:	G007-LK showed antitumor efficacy for Xenograft COLO-320DM tumors mice. TNKS1 and TNKS2 protein levels were reduced, AXIN1 and AXIN2 were stabilized, and b-catenin level was decreased.
	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

1. Jia J, Qiao Y, et al. "Tankyrase inhibitors suppress hepatocellular carcinoma cell growth via modulating the Hippo cascade." PLoS One. 2017 Sep 6;12(9):e0184068.PMID:28877210

See more customer validations on www.apexbt.com.

References

[1] Lau T, Chan E, Callow M, Waaler J, et. al. A novel tankyrase small-molecule inhibitor suppresses APC mutation-driven colorectal tumor growth. Cancer Res. 2013 May 15;73(10):3132-44.

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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