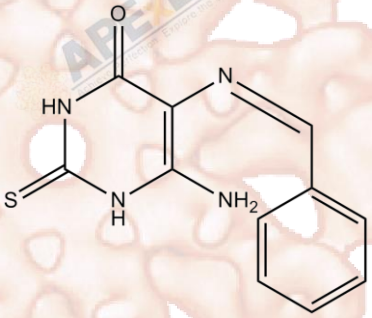
Product Data Sheet

L189



Cat. No.:	B7426
CAS No.:	64232-83-3
Formula:	C11H10N4OS
M.Wt:	246.29
Synonyms:	
Target:	DNA Damage/DNA Repair
Pathway:	DNA Ligases
Storage:	Store at -20°C

Solvent & Solubility

In Vitro

⩾62.5 mg/mL in DMSO; insoluble in EtOH; insoluble in H2O

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	4.0603 mL	20.3013 mL	40.6025 mL
5 mM	0.8121 mL	4.0603 mL	8.1205 mL
10 mM	0.4060 mL	2.0301 mL	4.0603 mL

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

Biological Activity

Shortsummary	inhibitor of human DNA ligases I, III and IV
IC_{50} & Target	

In Vitro

Cell Viability Assay

Cell Line:	Human breast epithelial MCF10A cells, human colon cancer HCT116 cells, human cervical cancer HeLa cells, and human breast cancer MCF7 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:	0~50 μmol/L for 6 days
	Applications:	In a concentration-dependent manner, L189 (0~50 μmol/L) reduced the proliferation and/or viability of a normal breast epithelial cell line MCF10A and the cancer cell lines MCF7, HeLa, and HCT116 established from breast, cervical, and colon cancers, respectively. In colony-forming assays, L189 was cytotoxic. L189 also increase the rate of killed cells in cancer cell lines, especially HCT116 colon cancer cell line and other cancer cell lines by ionizing radiation. But L189 did not increase the rate of killed cells in the normal cell line.
In Vivo	**Animal experiment**	
	Applications:	

Product Citations

See more customer validations on www.apexbt.com.

References

[1] Christian Jekimovs, Emma Bolderson, Amila Suraweera, et al. Chemotherapeutic compounds targeting the DNA double-strand break repair pathways: the good, the bad, and the promising. Frontiers in Oncology, 2014, 4: Article 86.

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. Shortterm 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.