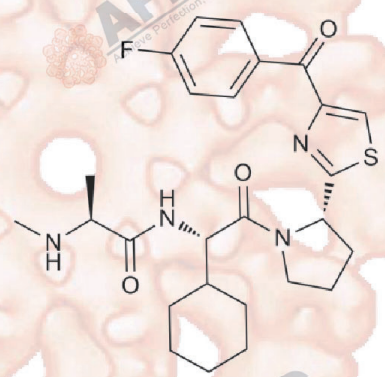
Product Data Sheet

LCL161

Cat. No.:	A3541
CAS No.:	1005342-46-0
Formula:	C26H33FN4O3S
M.Wt:	500.63
Synonyms:	LCL-161;LCL 161
Target:	Apoptosis
Pathway:	IAP
Storage:	Store at -20°C



Solvent & Solubility

In Vitro

≥25.05 mg/mL in DMSO; insoluble in H2O; insoluble in EtOH

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	1.9975 mL	9.9874 mL	19.9748 mL
5 mM	0.3995 mL	1.9975 mL	3.9950 mL
10 mM	0.1997 mL	0.9987 mL	1.9975 mL

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

Biological Activity

Shortsummary	Antagonist of IAPs inhibitor
IC_{50} & Target	

In Vitro

Cell Viability Assay

Cell Line:	Hep3B, PLC5, Sk-Hep1 and Huh-7 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, 0.01, 0.05, 0.1, 0.5, 1, 5 and 10 μM; 24, 48 or 72 hrs

	Applications:	LCL161 showed significant inhibition of cell proliferation and viability in 2 human hepatocellular carcinoma (HCC) cells, Hep3B and PLC5. The IC50 values were 10 and 19 μM, respectively. However, LCL161 had no effect in 2 other HCC cell lines, Sk-Hep1 (IC50 value of 224 μM) and Huh-7 (IC50 value of 228 μM).
In Vivo	**Animal experiment**	
	Animal models:	Huh-7 xeonograft nude mice
	Dosage form:	50 mg/kg; p.o.; q.d., for 20 days
	Applications:	Co-treatment with LCL161 and SC-2001 showed significant anti-tumor effect on Huh-7 tumors, without affecting body weight significantly.
	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. Gradzka S, Thomas OS, et al. "Inhibitor of apoptosis proteins are required for effective fusion of autophagosomes with lysosomes." Cell Death Dis. 2018 May 9;9(5):529.PMID:29743550

See more customer validations on www.apexbt.com.

References

[1]. Chen K F, Lin J P, Shiau C W, et al. Inhibition of Bcl-2 improves effect of LCL161, a SMAC mimetic, in hepatocellular carcinoma cells. Biochemical pharmacology, 2012, 84(3): 268-277.

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.

APExBIO Technology
www.apexbt.com
7505 Fannin street, Suite 410, Houston, TX 77054.
Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com