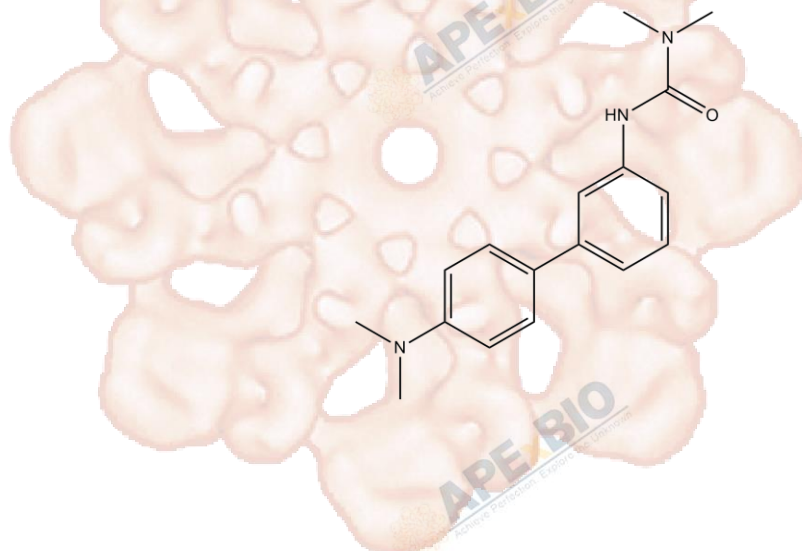


Product Data Sheet

Atglistatin

Cat. No.:	B3021
CAS No.:	1469924-27-3
Formula:	C ₁₇ H ₂₁ N ₃ O
M.Wt:	283.37
Synonyms:	
Target:	Others
Pathway:	Others
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H₂O; insoluble in EtOH; ≥14.15 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	3.5290 mL	17.6448 mL	35.2896 mL
	5 mM	0.7058 mL	3.5290 mL	7.0579 mL
	10 mM	0.3529 mL	1.7645 mL	3.5290 mL

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

Biological Activity

Shortsummary

ATGL inhibitor, potent and selective

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	3T3-L1 fibroblasts, AML-12 mouse hepatocytes
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:	0.1, 1, 10, or 50 μM for 1-3 h

	Applications:	Atglistatin showed highest adipose triglyceride lipase (ATGL) inhibition potential with IC50 value of 0.7 μ M. Atglistatin was highly effective in inhibiting lipolysis in 3T3-L1 adipocytes and white adipose tissue (WAT) organ cultures of wild-type mice by targeting ATGL.
In Vivo	Animal experiment	
	Animal models:	Mice (C57Bl/6J) model
	Dosage form:	200 μ mol/kg; oral gavage or intraperitoneal administration, for 8 h;
	Applications:	Atglistatin showed the potential of inhibiting lipolysis in fasted wild-type C57Bl/6J mice. Atglistatin also caused a strong reduction in plasma triacylglycerol (TG) levels (-43%).
	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. Mayer, N., Schweiger, M., Romauch, M., Grabner, G. F., Eichmann, T. O., Fuchs, E., Ivkovic, J., Heier, C., Mrak, I., Lass, A., Hofler, G., Fledelius, C., Zechner, R., Zimmermann, R. and Breinbauer, R. (2013) Development of small-molecule inhibitors targeting adipose triglyceride lipase. Nat Chem Biol. 9, 785-787

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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