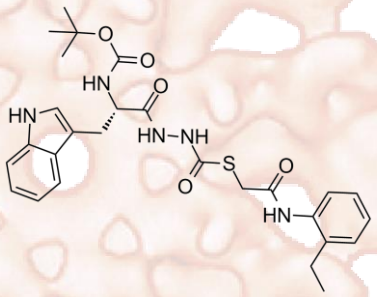
Product Data Sheet

SID 26681509



Cat. No.:	A4424
CAS No.:	958772-66-2
Formula:	C27H33N5O5S
M.Wt:	539.65
Synonyms:	
Target:	Proteases
Pathway:	Cathepsin
Storage:	Store at -20°C

Solvent & Solubility

In Vitro

<26.98mg/ml in DMSO; <5.4mg/ml in ethanol

Preparing Stock Solutions

Concentration \ Mass / Solvent	1mg	5mg	10mg
1 mM	1.8531 mL	9.2653 mL	18.5305 mL
5 mM	0.3706 mL	1.8531 mL	3.7061 mL
10 mM	0.1853 mL	0.9265 mL	1.8531 mL

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

Biological Activity

Shortsummary	Human cathepsin L inhibitor,potent and reversible
IC_{50} & Target	56nM (cathepsin L)

In Vitro

Cell Viability Assay

Cell Line:	human aortic endothelial 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:	100 μM, 37°C for 24 h
Applications:	SID 26681509 (100 μM) was non-toxic to human aortic endothelial cells. SID

		26681509 was active in an in vitro propagation assay against P. falciparum with an IC50 of 15.4 ± 0.6 μM. SID 26681509 was toxic toward L. major promastigotes with an IC50 of 12.5 ± 0.6 μM.
In Vivo	**Animal experiment**	
	Animal models:	zebrafish
	Dosage form:	100 μM
	Applications:	SID 26681509 (100 μM) demonstrated a lack of toxicity to zebrafish in a live organism assay.
	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]. Shah P P, Myers M C, Beavers M P, et al. Kinetic characterization and molecular docking of a novel, potent, and selective slow-binding inhibitor of human cathepsin L[J]. Molecular pharmacology, 2008, 74(1): 34-41.

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.