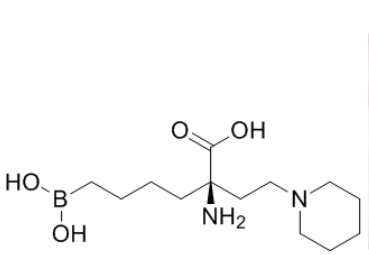
Product Data Sheet

Arginase inhibitor 1

Cat. No.:	B1009
CAS No.:	1345808-25-4
Formula:	C13H27BN2O4
M.Wt:	286.18
Synonyms:	
Target:	Others
Pathway:	Arginase
Storage:	Store at -20°C



Solvent & Solubility

In Vitro

Soluble in DMSO

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	3.4943 mL	17.4715 mL	34.9430 mL
5 mM	0.6989 mL	3.4943 mL	6.9886 mL
10 mM	0.3494 mL	1.7472 mL	3.4943 mL

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

Biological Activity

Shortsummary	Human arginases I and II inhibitor
IC_{50} & Target	

In Vitro

Cell Viability Assay

Cell Line:	CHO cells over-expressing human arginase I
Preparation method:	This compound is soluble in DMSO. 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, 0.3, 1, 3, 10, 30, 100, and 300 μM; 24 h
Applications:	In CHO cells over-expressing human arginase I, Arginase inhibitor 1 inhibited

		human arginase I with IC50 value of 8 μM.
In Vivo	**Animal experiment**	
	Animal models:	MI/RI rat model
	Dosage form:	100 mg/kg, i.v.; administered as a bolus 15 min before occlusion of the coronary artery
	Applications:	In MI/RI rat model, Arginase inhibitor 1 (100 mg/kg, i.v.) reduced infarct size to 35.2% of area at risk (AAR), similar to the intermittent preconditioning (IPC) group.
	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] Wang L, Yu Y, Chow DC et al. Characterization of a Steroid Receptor Coactivator Small Molecule Stimulator that Overstimulates Cancer Cells and Leads to Cell Stress and Death. Cancer Cell. 2015 Aug 10;28(2):240-52.

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.