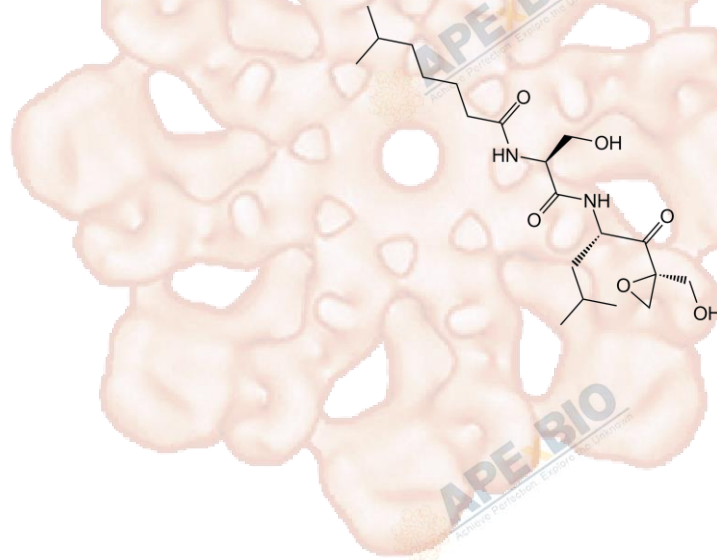


Product Data Sheet

Dihydroeponemycin

Cat. No.:	A8172
CAS No.:	126463-64-7
Formula:	C ₂₀ H ₃₆ N ₂ O ₆
M.Wt:	400.51
Synonyms:	Dihydroeponemycin, uk101
Target:	Ubiquitination/ Proteasome
Pathway:	Proteasome
Storage:	Store at 2-8°C



Solvent & Solubility

≥ 15.6 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent	Mass	1mg	5mg	10mg
			Concentration		
	1 mM		2.4968 mL	12.4841 mL	24.9682 mL
	5 mM		0.4994 mL	2.4968 mL	4.9936 mL
	10 mM		0.2497 mL	1.2484 mL	2.4968 mL

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

Biological Activity

Shortsummary

Proteasome inhibitor, antitumor reagent, eponemycin derivative

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	Bovine aortic endothelial cells
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:	4 μM; 0, 12, 24, 36 and 48 hrs

	Applications:	In bovine aortic endothelial cells, DNA fragmentation occurred in 95% of cells over a course of a 48-hr incubation with Dihydroeponepmycin.
In Vivo	Animal experiment	
	Applications:	

Product Citations

1.Schrader J, Henneberg F, et al. "The inhibition mechanism of human 20S proteasomes enables next-generation inhibitor design." Science. 2016 Aug 5;353(6299):594-8.PMID:27493187

See more customer validations on www.apexbt.com.

References

[1]. Meng L, Kwok BH, Sin N, Crews CM. Eponemycin exerts its antitumor effect through the inhibition of proteasome function. Cancer Res. 1999;59(12):2798-801.

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. 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.

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