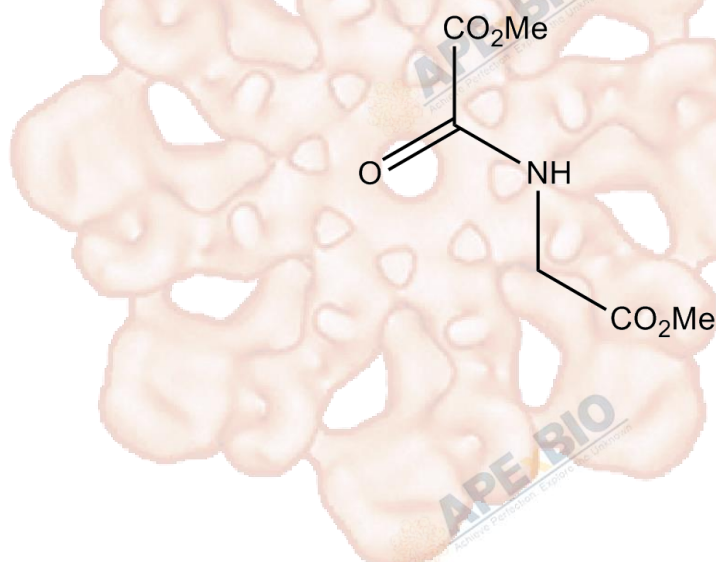


Product Data Sheet

DMOG

Cat. No.:	A4506
CAS No.:	89464-63-1
Formula:	C ₆ H ₉ NO ₅
M.Wt:	175.14
Synonyms:	
Target:	Chromatin/Epigenetics
Pathway:	HIF
Storage:	Store at -20°C



Solvent & Solubility

≥17.8 mg/mL in EtOH with ultrasonic; ≥34.47 mg/mL in H₂O with ultrasonic; ≥8.75 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent	Mass	1mg	5mg	10mg
			Concentration		
	1 mM		5.7097 mL	28.5486 mL	57.0972 mL
	5 mM		1.1419 mL	5.7097 mL	11.4194 mL
	10 mM		0.5710 mL	2.8549 mL	5.7097 mL

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

Biological Activity

Shortsummary

Competitive HIF-PH inhibitor, cell-permeable

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line: B1 cells

Preparation method: The solubility of this compound in DMSO is >8.8mg/mL. 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: 1 mM, 2 hours

In Vivo	Applications:	DMOG upregulated phosphorylated p50 (S337) in peritoneal M.
	Animal experiment	
	Animal models:	BALB/c and C57BL/6 mice
	Dosage form:	8 mg/mouse, Intraperitoneal injection
	Applications:	DMOG had significantly increased survival in LPS-induced shock. DMOG treatment upregulated the expression of IL-10, specifically in the peritoneal B-1 cell population. Mice receiving DMOG treatment prior to surgery developed significant exacerbation of disease symptoms and significantly increased mortality rate.
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]. Hams E, Saunders S P, Cummins E P, et al. The hydroxylase inhibitor DMOG attenuates endotoxic shock via alternative activation of macrophages and IL-10 production by B-1 cells[J]. Shock (Augusta, Ga.), 2011, 36(3): 295.

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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