

# Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

## SZABO-SCANDIC HandelsgmbH

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# Data Sheet (Cat.No.T1939)



#### DMOG

Chemical Proper	ties
CAS No. :	89464-63-1
Formula:	C6H9NO5 0 0
Molecular Weight:	175.14
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year

### **Biological Description**

Description	DMOG (Dimethyloxalylglycine), an antagonist of the $\alpha$ -ketoglutarate cofactor, is an inhibitor for HIF prolyl hydroxylase.		
Targets(IC50)	HIF/HIF Prolyl-Hydroxylase,HIF,Autophagy		
In vitro	DMOG shows only weakly active in the microsomal system, but efficiently suppresses hydroxyproline synthesis in intact cells. [1] DMOG reduces FGF-2-induced proliferation and cyclin A expression by inhibiting prolyl hydroxylase activity in HPASMC. [3]		
In vivo	DMOG inhibits endogenous HIF inactivation and induces angiogenesis in the ischaemic skeletal muscles of mice. [2] Up-regulation of hypoxia-inducible factor-1α by DMOG may be the cardioprotective mechanism of ischemic postconditioning in hyperlipidemic rats [4].		
Cell Research			

### Solubility Information

Solubility	H2O: 17.54 mg/mL (100 mM),Sonication is recommended.
	DMSO: 60 mg/mL (342.58 mM),
	Ethanol: 35 mg/mL (199.84 mM),
	(< 1 mg/ml refers to the product slightly soluble or insoluble)

## A DRUG SCREENING EXPERT

#### Preparing Stock Solutions

The second se	1mg	5mg	10mg	
1 mM	5.7097 mL	28.5486 mL	57.0972 mL	
5 mM	1.1419 mL	5.7097 mL	11.4194 mL	
10 mM	0.571 mL	2.8549 mL	5.7097 mL	
50 mM	0.1142 mL	0.571 mL	1.1419 mL	

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

#### Reference

Zheng B X, Long W, Zheng W, et al.Mitochondria-Selective Dicationic Small-Molecule Ligand Targeting G-Quadruplex Structures for Human Colorectal Cancer Therapy.Journal of Medicinal Chemistry.2024

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