

Product Information

Hydroxylase inhibitor, DMOG, Purity $\geq 98\%$

Cat. No.: X24-09-YM119

Size: 100 mg; 200 mg; 500 mg; 1 g

MDL: MFCD05865098

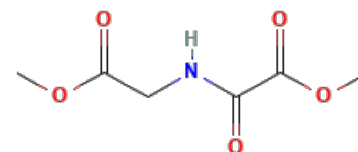
CAS Number: 89464-63-1

Compound CID: 560326

Synonym: 89464-63-1; Dimethyloxaloyl glycine; Methyl

2-[(2-methoxy-2-oxoethyl)amino]-2-oxoacetate; Hydroxylase inhibitor

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	DMOG, soluble in DMSO, water and ethanol, is an effective metabolism inhibitor, that has the ability to prevent the pathway of cell metabolism by inhibiting hydroxylases. The molecular weight of the compound is 175.14, and its molecular formula is C ₆ H ₉ NO ₅ .
Molecular Weight	175.14
Molecular Formula	C ₆ H ₉ NO ₅
IUPAC Name	Methyl 2-[(2-methoxy-2-oxoethyl)amino]-2-oxoacetate
InChI	InChI=1S/C6H9NO5/c1-11-4(8)3-7-5(9)6(10)12-2/h3H2,1-2H3,(H,7,9)
InChI Key	BNJOZDZCRHCODO-UHFFFAOYSA-N
Canonical SMILES	COC(=O)CNC(=O)C(=O)OC
Isomeric SMILES	CC1=NN(C=C1)C2=C(C=CC(=C2)Cl)[C@H](C(F)(F)F)OC3=NC(=NC(=C3)C4=CC=C(C=C4)C[C@H](C(=O)O)N)N
Form	Lyophilized powder
Purity	$\geq 98\%$
Impurities	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
Solubility	<i>In vitro</i> : DMSO: 33 mg/mL (188.42 mM); Water: 33 mg/mL (188.42 mM); Ethanol: 33 mg/mL (188.42 mM)
Identity	Confirmed by NMR/HPLC/MS.
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	DMOG plays a key role in influencing the expression of genes involved in angiogenesis and



metabolism.

Storage

Store at -20°C, and keep desiccated.
