

DMOG

Catalog No: tcsc2512



Available Sizes

Size: 50mg

Size: 100mg

Size: 200mg

Size: 500mg



Specifications

CAS No:

89464-63-1

Formula:

$C_6H_9NO_5$

Pathway:

Metabolic Enzyme/Protease

Target:

HIF/HIF Prolyl-Hydroxylase

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 101.5 mg/mL (579.54 mM)

Alternative Names:

Dimethyloxallyl Glycine

Observed Molecular Weight:

175.14

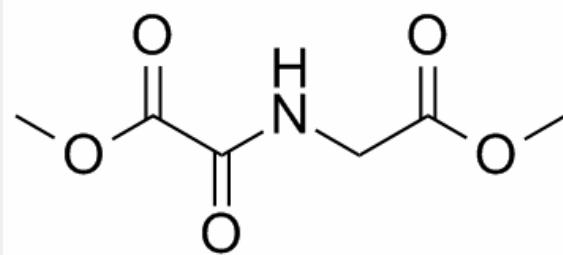
Product Description

DMOG (Dimethyloxallyl Glycine) is a cell-permeable and competitive inhibitor of **HIF-1 α prolyl hydroxylase (HIF-PH)**.

IC50 & Target: HIF-1 α prolyl hydroxylase^[1]

In Vitro: DMOG efficiently suppresses hydroxyproline synthesis in intact cells, but shows only weakly active in the microsomal system^[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 ischaemic skeletal muscles of mice^[2]. Up-regulation of hypoxia-inducible factor-1 α by DMOG enhances the cardioprotective effects of ischemic postconditioning in hyperlipidemic rats^[4].



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