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Produktinformation

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Dimethyloxaloylglycine (DMOG)

Prolyl-4-hydroxylase inhibitor
Catalog No. SIH-382

Discovery through partnership | Excellence through quality

Overview

Product Name

Dimethyloxaloylglycine (DMOG)

Description

Prolyl-4-hydroxylase inhibitor

Purity

>99%

CAS No.

89464-63-1

Molecular Formula

C7H9NO5

Molecular Weight

175.1

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

Soluble in DMSO (>25 mg/ml), 100% ethanol (>25 mg/ml) or dimethyl formamide, or PBS pH7.2 (10 mg/ml)

Source

Synthetic

Appearance

Off-white solid

SMILES

C(C(=O)OC)NC(C(=O)OC)=O

InChI

InChI=1S/C6H9NO5/c1-11-4(8)3-7-5(9)6(10)12-2/h3H2,1-2H3,(H,7,9)

InChIKey

BNJOZDZCRHCODO-UHFFFAOYSA-N

Safety Phrases

Classification: Caution. Substance not yet fully tested.
Safety Phrases:
S22 - Do not breathe dust
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection
S24/25 - Avoid contact with skin and eyes
Hazard Statements:
H302 - Harmful if swallowed

Cite This Product

Dimethyloxaloylglycine (DMOG) (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-382)

Biological Description

Alternative Names

DMOG, N-(Methoxyoxoacetyl)-glycine methyl ester

Research Areas

Cell Signaling

PubChem ID

560326

Scientific Background

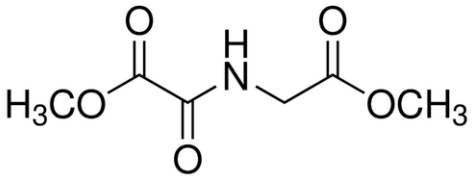
DMOG is a cell permeable prolyl-4-hydroxylase inhibitor which upregulates HIF activity. HIF activation stimulates angiogenesis in several different models. DMOG also inhibits FIH (Factor Inhibiting HIF), an asparaginyl hydroxylase, which enhances the HIF response. It is active in vivo and attenuates myocardial injury in a rabbit ischemia reperfusion model (20mg/kg). Is expected to act pro-angiogenic.

References

1. Grozinger C.M., et al. (2001) J. Biol. Chem. 276(42): 38837-43.
2. Mai A., et al. (2005) J. Med. Chem. 48(24): 7789-95.
3. Kahyo T., et al. (2008) J. Pharmacol. Sci. 108(3): 364-71.
4. Jung-Hynes B., et al. (2009) J. Biol. Chem. 284(6): 3823-32.

Product Images

Chemical structure of Dimethyloxaloylglycine (DMOG) (SIH-382), a Prolyl-4-hydroxylase inhibitor. CAS #: 89464-63-1. Molecular Formula: C6H9NO5. Molecular Weight: 175.1 g/mol.



Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.