

DMOG

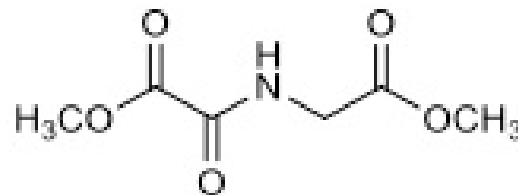
Catalog No: 14062, 14063**Format:** 50 mg, 10 mg**Chemical Properties:**

MW = 175.1

C₆H₉NO₅

CAS 89464-63-1

Physical Properties: White to off-white solid; MP = 46-48°C

Names: DMOG, N-(2-Methoxy-2-oxoacetyl)glycine methyl ester;
Dimethyloxalylglycine**Pharmacology:** Inhibits PHD or prolyl hydroxylase domain-containing proteins, activating HIF1 α (ref 1,2) and inhibiting JMJD2A (IC₅₀ = 2.5 M) (ref 3). Displays neuroprotective effects. Inhibits neuronal cell death caused by neurotrophin deprivation (ref 4). Prevents activation of the ATR/CHK1/p53 pathway and suppresses apoptosis induced by DNA damage (ref 5).**Solubilization:** May be dissolved in DMSO (30 mg/ml); Ethanol (25 mg/ml); Water (30 mg/ml)**Fluorescent Properties:** N/A**Quality Control:**

>98% (TLC); NMR (Conforms)

References:

1. TM Asikainen *et al. Proc. Natl. Acad. Sci. USA* 2005, 102:10212
2. P Jaakkola *et al. Science* 2001, 292:468
3. S Hamada *et al. Bioorg. Med. Chem. Lett.* 2009, 19:2852
4. DJ Lomb *et al. Mol. Pharmacol.* 2009, 75:1198
5. L Xie *et al. Clin. Invest.* 2012, 122:2827

Storage and Guarantee: Store desiccated as supplied at -20°C for up to 2 years. Store solutions at -20°C for up to 1 month. This product is guaranteed for 6 months from date of arrival.