

## DMOG, Prolyl hydroxylase inhibitor

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| Catalog       | Unit   |
|---------------|--------|
| TBI2371-50MG  | 50 mg  |
| TBI2371-100MG | 100 mg |

### Product Details

**Formal Name:** N-(2-Methoxy-2-oxoacetyl)glycine methyl ester

**Alternate Names:** Dimethyloxalylglycine

**Molecular Formula:** C<sub>6</sub>H<sub>9</sub>NO<sub>5</sub>

**Formula Weight:** 175.14

**CAS Number:** 89464-63-1

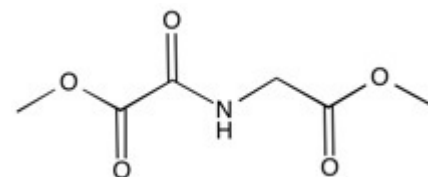
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 25 mg/ml) or in Ethanol (up to 25 mg/ml).

**Storage:** -20°C / protect from light

**Stability:** ≥ 2 years.



### Applications

Prolyl hydroxylase inhibitor

### Functions

Inhibits PHD or prolyl hydroxylase domain-containing proteins, activating HIF1 $\alpha$  and inhibiting JMJD2A (IC<sub>50</sub> = 2.5  $\mu$ M). Displays neuroprotective effects. Inhibits neuronal cell death caused by neurotrophin deprivation. Prevents activation of the ATR/CHK1/p53 pathway and suppresses apoptosis induced by DNA damage.

### Application Procedures

First dissolved in DMSO (up to 25 mg/ml) or in Ethanol (up to 25 mg/ml), then diluted to aqueous buffer. Solutions are not stable. Solutions must be made fresh and used within 1 working day.

**For research use only.**