

## DMGO

**Description:** Dimethylglycine oxidase Recombinant originated from *Arthrobacter globiformis* fused to His Tag at N-terminal produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 850 amino acids and having a molecular mass of 92.1 kDa. The DMGO is purified by proprietary chromatographic techniques.

Catalog #: ENPS-325

For research use only.

**Synonyms:** DMGO, Dimethylglycine Oxidase.

**Source:** *Escherichia coli*.

**Physical Appearance:** Sterile filtered liquid formulation 1 mg/ml.

**Amino Acid Sequence:** MGSSHHHHH SSGLVPRGSH MASTPRIVII GAGIVGTNLA  
DELVTRGWNN ITVLDQGPN MPGGSTSHAP GLVFQTNPSK TMAFAYKTVEKLLSLTEDG  
VSCFNQVGG EVATTETRLA DLKRKLGAAA AWGIEGRLLS PAECQELYPL LDGENILGGL  
HVPSDGLASA ARAVQLLIKRTESAGVTYRG STVTGIEQS GGRVTGVQTA DGVIPADIVV  
SCAGFWGAKI GAMI

**Purity:** Greater than 95.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

### Formulation:

The Recombinant Dimethylglycine Oxidase solution contains 20mM Tris-HCl pH7.5 and 20% glycerol.

### Stability:

Dimethylglycine Oxidase Recombinant although stable at 4°C for 30 days, should be stored desiccated below -20°C for periods greater than 30 days. Please prevent freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

Dimethylglycine oxidase (DMGO) is a covalent flavoenzyme from *Arthrobacter globiformis* that catalyzes the oxidative demethylation of dimethylglycine to yield sarcosine, formaldehyde, and hydrogen peroxide. The N-terminal region binds FAD covalently so it is yellowish.

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