

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: MGSSHHHHHH SSGLVPRGSH MASTPRIVII GAGIVGTNLA
DELVTRGWNN ITVLDQGPNL MPGGSTSHAP GLVFQTNPSK TMAFSAKYTVEKLLSLTEDG
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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