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**Product Data Sheet**


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Product Name: DMGO  
 Cat. No.: GP21565  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	DMGO; Dimethylglycine Oxidase.		
Amino Acid Sequence	<p>MGSSHHHHH SGLVPRGSH MASTPRIVII GAGIVGTNLA DELVTRGWNN          ITVLDQGPNL MPGGSTSHAP GLVFQTNPSK TMAFAKYTVEKLLSLTEDG          VSCFNQVGGL EVATTETRLA DLKRKLGAAA AWGIEGRLLS PAECQELYPL          LDGENILGGL HVPSDGLASA ARAVQLLIKRTESAGVTYRG STTVTGIEQS          GGRVTGVQTA DGVIPADIVV SCAGFWGAKI GAMIGMAVPL LPLAHQYVKT          TPVPAQQGRN DQPNGARLPILRHQDQDLYY REHGDRYGIG SYAHRPMPVD          VDTLGAYAPE TVSEHHMPSR LDFTLEDFLP AWEATKQLLP ALADSEIEDG          FNGIFSFTPDGGPLLGESKE LDGFYVAEAV WVTHSAGVAK AMAELLTGR          SETDLGECDI TRFEDVQLTP EYVSETSQQN FVEIYDVLHP          LQPRLSPRNLRVSPFHARHK ELGAFFLEAG GWERPYWFEA NAALLKEMPA          EWLPPARDAW SGMFSSPIAA AEAWKTRTAV AMYDMTPLKR          LEVSGPGALKLLQELTTADL AKKPGAVTYT LLLDHAGGVR SDITVARLSE          DTFQLGANGN IDTAYFERAA RHQTQSGSAT DWVQVRDTTG          GTCCIGLWGPLARDLVSKVS DDDFTNDGLK YFRAKNVVIG GIPVTAMRLS          YVGELGWELY TSADNGQRLW DALWQAGQPF GVIAAGRAAF          SSLRLEKGYRSWGTDMTTEH DPFEAGLGFA VKMAKESFIG KGALEGRTEE          ASARRLRCLT IDDGRSIVLG KEPVFYKEQA VGYVTSAAYG          YTVAKPIAYSYPGTVSVGD SVDIEYFGRR ITATVTEDPL YDPKMTRLRG.</p>		
Formulation	The Recombinant Dimethylglycine Oxidase solution contains 20mM Tris-HCl pH7.5 and 20% glycerol.		

**Introduction**

Dimethylglycine oxidase (DMGO) is a covalent flavoenzyme from *Arthrobacter globiformis* that catalyzes the oxidative demethylation of dimethylglycine to yield

**Caution: Product has not been fully validated for medical applications. For research use only.**

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sarcosine, formaldehyde, and hydrogen peroxide. The N-terminal region binds FAD covalently so it is yellowish.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

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.

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