



Product Datasheet

Product Name	Dimethylglycine Oxidase Recombinant
Cata No	CB500495
Source	<i>Escherichia Coli.</i>
Synonyms	DMGO, Dimethylglycine Oxidase.

Description

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.

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.

Physical Appearance

Sterile filtered liquid formulation 1 mg/ml.

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.

Sequence

MGSSHHHHHH SGLVPRGSH MASTPRIVII
GAGIVGTNLA DELVTRGWNN ITVLDQGPLN
MPGGSTSHAP GLVFQTNPSK
TMAFACYTVEKLLSLTEDG VSCFNQVGGL
EVATTETRLA DLKRKLG YAA AWGIEGRLLS
PAECQELYPL LDGENILGGL HVPSDGLASA
ARAVQLLIKRTESAGVTYRG STTVTGIEQS
GGRVTGVQTA DGVIPADIVV SCAGFWGAKI
GAMIGMAVPL LPLAHQYVKT TPVPAQQGRN
DQPNGARLPILRHQDQDLYY REHGDYRGIG
SYAHRPMPVD VDTLGAYAPE TVSEHHMPSPR
LDFTLEDFLP AWEATKQLLP ALADSEIEDG
FNGIFSFTPDGGPLLGESKE LDGFYVAEAV
WVTHSAGVAK AMAELLTTGR SETDLGECDI
TRFEDVQLTP EYVSETSQQN FVEIYDVLHP
LQPRLSRNLRVSPFHARHK ELGAFFLEAG
GWERPYWFEA NAALLKEMPA EWLPPARDAW
SGMFSSPIAA AEAWKTRTAV AMYDMTPLKR
LEVSGPGALKLLQELTTADL AKKPGAVTYT
LLLDHAGGVR SDITVARLSE DTFQLGANGN
IDTAYFERAA RHQTQSGSAT DWVQVRDTTG
GTCCIGLWGPLARDLVSKVS DDDFTNDGLK
YFRAKNVIG GIPVTAMRLS YVGELGWELY
TSADNGQRLW DALWQAGQPF GVIAAGRAAF
SSLRLEKGYRSWGTDMTTEH DPFEAGLGFA
VKMAKESFIG KGALEGRTEE ASARRLRCLT
IDDGRSIVLG KEPVIFYKEQA VGYVTSAAAYG
YTVAKPIAYSYPGTVSVGD SVDIEYFGRR
ITATVTEDPL YDPKMTRLRG.

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