

## DMG

### Recombinant *Arthrobacter globiformis* Dimethylglycine oxidase (aa 1-830) His

<b>Catalog No.</b>	CSI15676A	<b>Quantity:</b>	100 µg
	CSI15676B		500 µg

**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. Recombinant DMGO originated from *Arthrobacter globiformis*, fused to His tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

**Concentration:** 1 mg/ml (determined by Bradford assay)

**Protein Accession No:** AF329477

**Source:** *E. coli*

**Molecular Weight:** 92.1kDa (850aa), confirmed by MALDI-TOF.

**Formulation:** Liquid. 20mM Tris pH8.0, 20% glycerol Molecular Weight: 92.1kDa (850 a.a)

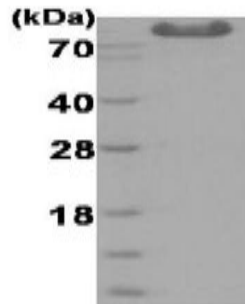
**Purity:** > 95% by SDS - PAGE

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MASTPRIVII GAGIVGTNLA DELVTRGWNN  
ITVLDQGPLN MPGGSTSHAP GLVFQTNPSK TMAFACYTV EKLLSLTEDG  
VSCFNQVGGL EVATTETRLA DLKRKLGAAA AWGIEGRLLS PAECQELYPL  
LDGENILGGL HVPSDGLASA ARAVQLLIK R TESAGVTYRG STTVTGIEQS  
GGRVTGVQTA DGVIPADIVV SCAGFWGAKI GAMIGMAVPL LPLAHQYVKT  
TPVPAQQGRN DQPNGARLPI LRHQDQDLYY REHGDYRIG SYAHRPMPVD  
VDTLGAYAPE TVSEHHMPSR LDFTLEDPL AWEATKQLLP ALADSEIEDG  
FNGIFSFTPD GGPLLGESKE LDGFYVAEAV WVTHSAGVAK AMAELLTGR  
SETDLGECDI TRFEDVQLTP EYVSETSQQN FVEIYDVLHP LQPRLSRNL  
RVSPFHARHK ELGAFFLEAG GWERPYWFEA NAALLKEMPA EWLPPARDAW  
SGMFSSPIAA AEAWKTRTAV AMYDMTPLKR LEVSGPGALK LLQELTTADL  
AKKPGAVTYT LLLDHAGGVR SDITVARLSE DTFQLGANGN IDTAYFERAA  
RHQTQSGSAT DWVQVRDTTG GTCCIGLWGP LARDLVSKVS DDDFTNDGLK  
YFRAKNVIG GIPVTAMRLS YVDELGWELY TSADNGQRLW DALWQAGQPF  
GVIAAGRAAF SSLRLEKGYR SWGTDMTTEH DPFEAGLGFA VKMAKESFIG  
KGALEGRTEE ASARRLRCLT IDGGRSIVLG KEPVFYKEQA VGYVTSAAYG  
YTVAKPIAYS YLPGTVSVGD SVDIEYFGRR ITATVTEDPL YDPKMTRLRG



**Application:** SDS-PAGE

**Storage & Stability:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -80°C. **Avoid repeated freezing and thawing cycles.**



15% SDS-PAGE (3 $\mu$ g)

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**