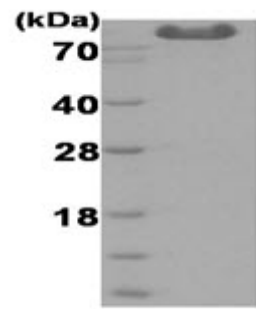


AR09018PU-N**Recombinant N,N-dimethylglycine oxidase (DMG) *Arthrobacter globiformis*, His-tagged****Alternate names:** *Arthrobacter globiformis* DMGO**Quantity:** 0.1 mg**Concentration:** 1.0 mg/ml**Background:** Dimethylglycine oxidase (DMGO) is a covalent flavoenzyme from *Arthrobacter globiformis* 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.**Uniprot ID:** [Q9AGP8](#)**NCBI:** [1665](#)**Source:** *E. coli***Format:** **State:** Liquid purified protein
Purity: >95% >/= 95% by SDS PAGE
Buffer System: 20 mM Tris pH 8.0, 20% glycerol**Description:** 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.**AA Sequence:**

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MGSSHHHHHHH SSGLVPRGSH MASTPRIVII GAGIVGTNLA DELVTRGWNN ITVLDQGPLN
MPGGSTSHAP GLVFQTNPSK TMAFSAKYTV EKLLSLTEDG VSCFNQVGGI EVATTETRLA
DLKRKLG YAA AWGIEGRLLS PAECQELYPL LDGENILGGL HVPDGLASA ARAVQLLIKR
TESAGVTYRG STTVTGIEQS GGRVTGVQTA DGVIPADIVV SCAGFWGAKI GAMIGMAVPL
LPLAHQYVKT TPVPAQQGRN DQPNGARLPI LRHQDQDLYY REHGDYRGIG SYAHRPMPVD
VDTLGAYAPE TVSEHHMPSR LDFTLEDFLP AWEATKQLLP ALADSEIEDG FNGIFSFPTD
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 YVGELGWELY TSADNGQRLW DALWQAGQPF GVIAAGRAAF SSLRLEKGYR
SWGTDMTTEH DPFEAGLGFA VKMAKESFIG KGALEGRTEE ASARRLRCLT IDDGRSIVLG
KEPVFYKEQA VGYVTSAAAYG YTVAKPIAYS YLPGTVSVGD SVDIEYFGRR ITATVTEDEPL
YDPKMTRLRG
```

Molecular weight: 92.1 kDa 92.1 kDa (850 a.a)**Storage:** Store (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Shelf life: one year from despatch.**General Readings:** Rolandas Meskys et al., *Eur. J. Biochem*(2001) 268:3390-3398.
Basran J, et al., *Biochemistry*. (2006) 45:11151-61.

Pictures:



15% SDS-PAGE (3ug)

DMGO: 15% SDS PAGE

