

Recombinant Human MB protein, His-tagged

Cat. No. MB-3429H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human MB(1-154aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-154 a.a.
Description	Myoglobin, mitochondrial precursor, also known as MB, is a cytosolic oxygen-binding protein responsible for the storage and diffusion of oxygen within myocytes. Expression of myoglobin is highest in skeletal and cardiac muscle. MB may serve a variety of functions in muscular oxygen supply, such as oxygen storage, facilitated diffusion, and myoglobin-mediated oxidative phosphorylation.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 100mM NaCl
Molecular Mass	19.3 kDa (174aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSHTALGGILKKK GHHEAEIKPL AQSHATKHKI PVKYLEFISE CIIQVLQSKH PGDFGADAQG AMNKALELFR KDMASNYKEL GFQG MGLSDGEWQL VLNVWGKVEA DIPGHGQEV LIRLFKGH PET LEKFDKFKHL KSEDEMKASE DLKKHGATVL

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Purity	>90% by SDS - PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	MB myoglobin [Homo sapiens]
Official Symbol	MB
Synonyms	MB; myoglobin; PVALB; MGC13548;
Gene ID	4151
mRNA Refseq	NM_203378
Protein Refseq	NP_976312
MIM	160000
UniProt ID	P02144
Chromosome Location	22q13.1
Function	heme binding; metal ion binding; oxygen binding; oxygen transporter activity;

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