

Recombinant Human MB Protein, His-tagged

Cat. No. MB-01H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Myoglobin produced in E. coli cells is a single non-glycosylated polypeptide chain containing 166 amino acids. rhMyoglobin has a molecular mass of 18.7 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.
Species	Human
Source	E.coli
Description	Myoglobin, a member of the globin family of proteins, is a cytosolic oxygen-binding protein that regulates the storage and diffusion of oxygen within myocytes. The largest expression of myoglobin is in skeletal and cardiac muscle. Myoglobin exhibits various functions in relation to the muscular oxygen supply, such as oxygen storage, facilitated diffusion, and myoglobin-mediated oxidative phosphorylation. Myoglobin is the primary oxygen-carrying pigment of muscle tissues. High concentrations of myoglobin in muscle cells allow organisms to hold their breath for a longer period of time. Diving mammals such as whales and seals have muscles with a particularly high abundance of myoglobin. Myoglobin is found in Type I, Type II A and Type II B muscle; however several studies indicate myoglobin is not found in smooth muscle.
Molecular Mass	18.7 kDa
AA Sequence	MHHHHHHDDDDKMGSLDGEWQLVLNVWGKVEADIPGHGQEV LIRLFKGGHPETLEK FDKFKHLKSEDEMKASEDLKKHGATVLTALGGILKKKGHHEAEIKPLAQSHATKHKIP

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

VKYLEFISECIIQVLQSKHPGDFGADAQGAMNKALELFRKDMASNYKELGFQG

Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE
Storage	Stable up to 6 months at lower than -70 centigrade from date of receipt. Stable up to 1 week at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Liquid after a 0.22 μm filtered solution in 20 mM Tris-HCl, 1 mM DTT, 100 mM NaCl and 20% glycerol, pH 8.0.

GENE INFORMATION

Gene Name	MB myoglobin [Homo sapiens (human)]
Official Symbol	MB
Synonyms	MB; myoglobin; PVALB; myoglobin
Gene ID	4151
mRNA Refseq	NM_005368
Protein Refseq	NP_005359
MIM	160000
UniProt ID	P02144

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