Native Human Myoglobin

Cat. No. MB-4460H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Myoglobin produced in Human Cardiac Tissues having a molecular mass of 17.5kDa. Myoglobin is released from recently injured myocardial cells within a few hours of Infarction. Peak levels are reached more quickly than CK-MB or Troponin complex.
Species	Human
Source	Human Cardiac
Description	Myoglobin is a member of the globin superfamily and can be found in skeletal and cardiac muscles. It is a haemoprotein that contributs to intracellular oxygen storage and transcellular facilitated diffusion of oxygen. Myoglobin has a single-chain globular structure of 153 amino acids, containing a heme prosthetic group (iron-containing porphyrin) in the core around which the remaining apoprotein folds. Myoglobin has 8 alpha helices and a hydrophobic core. Myoglobinμs molecular weight is 16.7 kDa, and it is the primary oxygen-carrying pigment of muscle tissues. The binding of oxygen in myoglobin is different from the cooperative oxygen binding in hemoglobin, since positive collaboration is a property of multimeric/oligomeric proteins only. Instead, the binding of oxygen by myoglobin is uninfluenced by the oxygen pressure in the surrounding tissue. Myoglobin is frequently referred to as having an "instant binding tenacity" to oxygen given its hyperbolic oxygen dissociation curve.
Form	The protein solution is in 0.05M phosphate buffer containing 0.15M NaCl and 0.09% NaN3 pH 7.5. Filtered through a 0.2μM membrane.

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Molecular Mass	17.5kDa
Purity	Greater than 96.0%.
Stability	Human Myoglobin should be stored at 2-8°C.

GENE INFORMATION

Gene Name	MB myoglobin [Homo sapiens]
Official Symbol	MB
Synonyms	MB; myoglobin; PVALB; MGC13548;
Gene ID	4151
mRNA Refseq	NM_005368
Protein Refseq	NP_005359
MIM	160000
UniProt ID	P02144
Chromosome Location	22q13.1
Function	heme binding; metal ion binding; oxygen binding; oxygen transporter activity;

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