

Native Bovine Myoglobin

Cat. No. MB-236B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified Native Bovine Heart Myoglobin.
Species	Bovine
Source	Bovine Heart
Description	Myoglobin is found in skeletal and cardiac muscle cells and is capable of reversibly binding molecular oxygen and enhancing the rate of oxygen diffusion through the muscle cell. It is an oxygen carrier in the cytoplasm and appears to be responsible for the transport of oxygen from the cell membrane to the mitochondrion. Myoglobin (Mb) is a Haem containing protein and implicated as a cause of acute renal failure following damage to muscle tissue (e.g. rhabdomyolysis, severe crush trauma, malignant hyperthermia, status epilepticus and neuroleptic malignant syndrome), due to its toxicity to renal tubular epithelium.
Form	Liquid in 50% Glycerol, 75 mM NaCl, 5 mM sodium phosphate, 0.05% NaN ₃ , pH Typically 7.0
Molecular Mass	17 kDa
Purity	>98% by SDS-PAGE
Storage	Store at -20 °C.
Concentration	>0.5 mg/mL

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GENE INFORMATION

Gene Name	MB myoglobin [Bos taurus]
Official Symbol	MB
Synonyms	myoglobin
Gene ID	280695
mRNA Refseq	NM_173881
Protein Refseq	NP_776306
UniProt ID	P02192
Chromosome Location	chromosome: 5
Function	heme binding; iron ion binding; oxygen binding

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