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Recombinant Human Myoglobin Protein

Catalog No.: RP03293LQ Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	4151	P02144

Tags
C-His

Synonyms
Myoglobin; MB; MGC13548; PVALB; MYOSB

Product Information

Source	Purification
E.coli	> 95% by SDS-PAGE.

Calculated MW	Observed MW
18.01 kDa	15-20 kDa

Endotoxin
< 1.0 EU/μg of the protein by LAL method.

Formulation
Supplied as a 0.22 μm filtered solution of PBS, 350 mM NaCl, 5% Trehalose, 5% Mannitol, 0.02% Tween 80, 1 mM EDTA, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Background

Myoglobin is an iron- and oxygen-binding protein found in the cardiac and skeletal muscle tissue of vertebrates in general and in almost all mammals. Myoglobin is distantly related to hemoglobin. Compared to hemoglobin, myoglobin has a higher affinity for oxygen and does not have cooperative binding with oxygen like hemoglobin does. High concentrations of myoglobin in muscle cells allow organisms to hold their breath for a longer period of time. Myoglobin is released from damaged muscle tissue. The released myoglobin enters the bloodstream, where high levels may indicate rhabdomyolysis. The myoglobin is filtered by the kidneys, but is toxic to the renal tubular epithelium and so may cause acute kidney injury.

Basic Information

Description
Recombinant Human Myoglobin Protein is produced by E.coli expression system. The target protein is expressed with sequence (Met1-Gly154) of human Myoglobin (Accession #P02144) fused with His tag at the C-terminus.

Bio-Activity

Storage
Store at -70℃. This product is stable at ≤ -70℃ for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles.
Avoid repeated freeze/thaw cycles.

Contact

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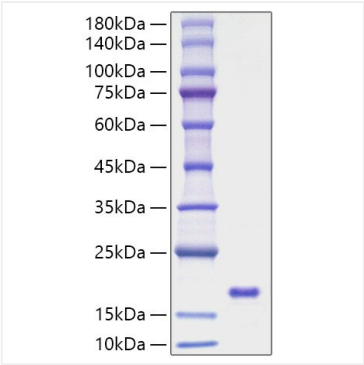
Validation Data



Recombinant Human Myoglobin Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 15-20 kDa.