

Myoglobin Protein, Human, Recombinant (His)

General Information

Synonyms:	MGC13548;PVALB;MB;Myoglobin
Protein Construction:	Met1-Gly154
Species:	Human
Expression Host:	E. coli
Accession:	P02144
Molecular Weight:	18 KDa (reducing condition)
AA Sequence:	Met1-Gly154

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of PBS, 350 mM NaCl, 5% Trehalose, 5% Mannitol, 0.02% Tween 80, 1 mM EDTA, pH7.4.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Myoglobin(MB) is a cytoplasmic protein expressed in myocytes of the heart and skeletal muscle that reversibly binds oxygen. It belongs to the globin family. Functions of myoglobin include oxygen storage and transport, as well as scavenging of NO and reactive oxygen species. MB serves as a reserve supply of oxygen and facilitates the movement of oxygen within muscles. Myoglobin also serves as a sensitive marker for muscle injury resulting from cardiac infarction. Surprisingly, mice in which myoglobin has been removed by gene targeting are able to perform extensive exercise and respond normally to hypoxic challenge.

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