

# Recombinant Human Myoglobin/MB Protein (His Tag)

Catalog Number:PKSH033586



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

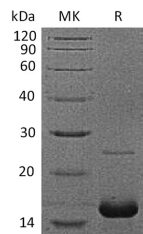
## Description

|                                    |                             |
|------------------------------------|-----------------------------|
| <b>Synonyms</b>                    | MB;MGC13548;Myoglobin;PVALB |
| <b>Species</b>                     | Human                       |
| <b>Expression Host</b>             | E.coli                      |
| <b>Sequence</b>                    | Met1-Gly154                 |
| <b>Accession</b>                   | P02144                      |
| <b>Calculated Molecular Weight</b> | 18.0 kDa                    |
| <b>Observed molecular weight</b>   | 18 kDa                      |
| <b>Tag</b>                         | C-His                       |

## Properties

|                       |  |
|-----------------------|--|
| <b>Purity</b>         | > 95 % as determined by reducing SDS-PAGE.   |
| <b>Endotoxin</b>      | < 1.0 EU per µg of the protein as determined by the LAL method.  |
| <b>Storage</b>        | Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.   |
| <b>Shipping</b>       | This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C. |
| <b>Formulation</b>    | Supplied as a 0.2 µm filtered solution of PBS, 350mM NaCl, 5% Trehalose, 5% Mannitol, 0.02% Tween 80, 1mM EDTA, pH7.4.                           |
| <b>Reconstitution</b> | Not Applicable   |

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Myoglobin is a 17kDa cytoplasmic oxygen-binding protein encoded by the MB gene and expressed in myocytes of the heart and skeletal muscle. Its name derives from its structural and functional similarity to hemoglobin, the oxygen binding protein found in red blood cells. Functions of myoglobin include oxygen storage and transport, as well as scavenging of NO and reactive oxygen species. Myoglobin also serves as a sensitive marker for muscle injury resulting from cardiac infarction. Myoglobin was the first protein to have its three-dimensional structure determined by X-ray crystallography.

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