

# Recombinant human Myoglobin protein

Catalog Number: ATGP0875

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-154aa

### UniProt No.

P02144

### NCBI Accession No.

NP\_976312.1

### Alternative Names

Myoglobin, PVALB

## PRODUCT SPECIFICATION

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### Molecular Weight

19.3 kDa (174aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 100mM NaCl

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Myoglobin, mitochondrial precursor, also known as MB, is a cytosolic oxygen-binding protein responsible for the storage and diffusion of oxygen within myocytes. Expression of myoglobin is highest in skeletal and cardiac muscle. MB may serve a variety of functions in muscular oxygen supply, such as oxygen storage, facilitated diffusion, and myoglobin-mediated oxidative phosphorylation. Recombinant human MB protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH> MGLSDGEWQL VLNVWGKVEA DIPGHGQEV LIRLFKGGHPET LEKFDKFKHL  
KSEDEMKASE DLKKHGATVL TALGGILKKK GHHEAEIKPL AQSHATKHKI PVKYLEFISE CIIQVLQSKH PGDFGADAQG  
AMNKALELFR KDMASNYKEL GFQG

## General References

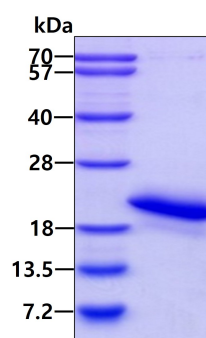
Jeffreys A J., et al. (1984) Nucleic Acids Res. 12:3235-3243.

Qiu Y., et al. (1998) J Biol Chem. 273:23426-23432.

## DATA

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### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.