
Recombinant human Myoglobin, His

Catalog Number: bs-10874P

Concentration: >0.5 mg/ml

AA Seq: 2-154/154

Predicted MW: 17

Detected MW: 17 kDa

Tags: His

Activity: Not tested

Endotoxin: Not analyzed

Purity: >95% as determined by SDS-PAGE

Purification: AC

Form: Lyophilized or Liquid

Storage: 20mM Tris-HCl (pH8.0) with 100mM imidazole and 300mM NaCl.

Stored at -70°C or -20°C. Avoid repeated freeze/thaw cycles.

Background: Myoglobin is a small heme containing protein responsible for the oxygen deposition in muscle tissues. Only one form of myoglobin is expressed in cardiac and skeletal muscles. Myoglobin is known as a marker of myocardial damage and it has been used for more than three decades. Nowadays it still is very commonly used in clinical practice as an early marker of AMI. It appears in patient's blood 1 to 3 hours after onset of the symptoms, reaching peak level within 8 to 12 hours. Myoglobin is not so cardiac specific as cTnI or cTnT. Because of high myoglobin concentration in skeletal muscle tissue, even minor skeletal muscle injury results in the significant increase of myoglobin concentration in blood. Thus myoglobin is used together with cTnI or cTnT in clinical practise for better specificity in AMI diagnosis.

VALIDATION IMAGES



The purity of the protein is greater than 90% as determined by reducing SDS-PAGE.



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PRODUCT SPECIFIC PUBLICATIONS

[IF=5.711] Ji J et al. Porous hydrogel encapsulated photonic barcodes for multiplex detection of cardiovascular biomarkers. ACS Sens. 2019 Apr 19. Other ; . 30985109