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Human Purified Myoglobin

Catalog Number:	bs-41107P
Concentration:	>1.0 mg/ml
AA Seq:	Purified native protein
Predicted MW:	17
Activity:	Yes
Endotoxin:	Not analyzed
Purity:	>95% as determined by SDS-PAGE
Form:	Liquid
Storage:	50 mM Tris-HCl (pH=7.4) with 0.02% Proclin300. 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.

PRODUCT SPECIFIC PUBLICATIONS

[IF=16] Kuo Yang. et al. A Wearable Dual-Modal Patch for Rapid Pre-Hospital Diagnosis of Acute Myocardial Infarction. ACS NANO. 2025;19(26):23969–23981 Other ; . 40552765

[IF=8.008] Shiyu Zang. et al. Hyperbranched Tetraphenylethylene Derivatives with Low Non-specific Aggregation-Induced Emission for Fluorescence Recognition of Proteins with Hydrophobic Pockets. ANAL CHEM. 2022;94(23):8365–8372 Other ; . 35653302