

## Specification

<b>Product name:</b>	Recombinant human MYO antigen
<b>Source:</b>	<i>E.coli</i> derived
<b>Accession #:</b>	P02144
<b>SDS-PAGE:</b>	15-25kDa, reducing conditions
<b>Construction:</b>	MYO with 6His tag at N-terminal
<b>Predicted Molecular Mass:</b>	18kDa
<b>Activity:</b>	Immunoreactivity was confirmed by reacting with monoclonal antibodies specific to human MYO.
<b>Application:</b>	ELISA, immunology, others unspecified.
<b>Form:</b>	Liquid
<b>Formulation:</b>	20 mM Tris, 300 mM NaCl, pH 8.0
<b>Stability &amp; Storage:</b>	Stable at -80°C
<b>Shipping condition:</b>	The product is shipped on ice pack. Upon receiving, store it immediately at the recommended temperature.
<b>Conc. Determined:</b>	BCA
<b>Purity:</b>	>98%

## SDS-PAGE



Greater than 98% as determined by reducing SDS-PAGE. (QC verified).

## BACKGROUND

Myoglobin is a cytosolic oxygen binding protein in charge of the storage and diffusion of oxygen within myocytes. The largest expression of MB is in the skeletal and cardiac muscle. MB operates in various functions in muscular oxygen supply, such as oxygen storage, facilitated diffusion, and myoglobin-mediated oxidative phosphorylation.

### References:

1. ASL SK, RAHIMZADEGAN M. The recent progress in the early diagnosis of acute myocardial infarction based on myoglobin biomarker: Nano-aptasensors approaches[J]. Journal of Pharmaceutical and Biomedical Analysis, 2022,211: 114624.
2. SCRIVNER O, FLETCHER E, HOFFMANN C, et al. Myoglobinemia, Peripheral Arterial Disease, and Patient Mortality[J]. Journal of the American College of Surgeons, 2023,236(4): 588-598
3. WU M, WANG C, ZHONG L, et al. Serum myoglobin as predictor of acute kidney injury and 90-day mortality in patients with rhabdomyolysis after exertional heatstroke: an over 10-year intensive care survey[J]. Int J Hyperthermia, 2022,39(1): 446-454