

# Recombinant human HO-1/HMOX1/HSP32 protein

Catalog Number: HMO0901

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-266aa

### UniProt No.

P09601

### NCBI Accession No.

NP\_002124

### Alternative Names

HO-1, Heat shock protein 32, HSP32, bK286B10, D8Wsu38e, Heme oxygenase (decycling) 1, Heme oxygenase 1, Hemox, Hmox, HMOX 1, HMOX1, HO, HO 1, HO1.

## PRODUCT SPECIFICATION

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### Molecular Weight

31.4 kDa (274aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 50mM NaCl, 0.1mM PMSF, 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### 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

Heme oxygenase 1 belongs to the heme oxygenase family and is an essential enzyme in heme catabolism. It cleaves heme to form biliverdin, which is subsequently converted to bilirubin by biliverdin reductase, and carbon monoxide, a putative neurotransmitter. Also this protein is known to play an important role in the regulation of

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cardiovascular function and its adaptive response to a variety of stressors. Recombinant human Heme oxygenase 1 protein, fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

### Amino acid Sequence

MERPQPHSMP QDLSEALKEA TKEVHTQAEN AEFMRNFQKG QVTRDGFKLK MASLYHIYVA LEEEIERNKE SPVFAPVYFP  
EELHRKAALQ QDLAFWYGPR WQEVIPYTPA MORYVKRLHE VGRTEPELLV AHAYTRYLGD LSGGQVLKKI AQAALDLPSS  
GEGLAFFTFP NIASATKFKQ LYRSRMNSLE MTPAVRQRVI EEAKTAFLLN IQLFEELQEL LTHDTKDQSP SRAPGLRQRA  
SNKVQDSAPV ETPRGKPLN TRSQAPLEHH HHHH

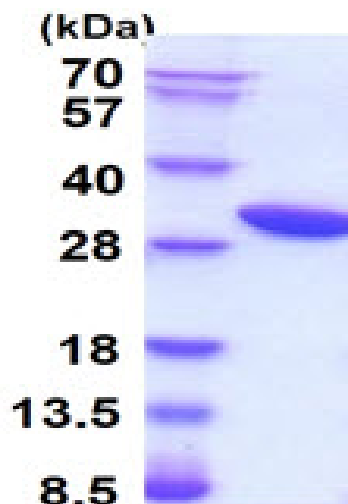
### General References

Vareille M., et al. (2008). J Immunol. 180(8):5720-6.

Soares MP., et al. (2001). Immunol Rev.184:275-85

## DATA

### SDS-PAGE



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

15% SDS-PAGE (4ug)