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# Recombinant human HO-1/HMOX1/HSP32 protein

Catalog Number: HMO0901

#### PRODUCT INFORMATION

### **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, HMOX1, HOOX1, HO 1, HO1.

### **PRODUCT SPECIFICATION**

# **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**

# **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.

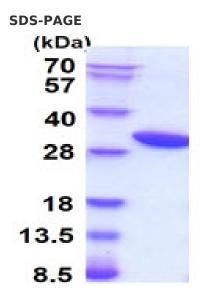
# **Amino acid Sequence**

MERPQPHSMP QDLSEALKEA TKEVHTQAEN AEFMRNFQKG QVTRDGFKLV MASLYHIYVA LEEEIERNKE SPVFAPVYFP EELHRKAALE QDLAFWYGPR WQEVIPYTPA MQRYVKRLHE VGRTEPELLV AHAYTRYLGD LSGGQVLKKI AQKALDLPSS GEGLAFFTFP NIASATKFKQ LYRSRMNSLE MTPAVRQRVI EEAKTAFLLN IQLFEELQEL LTHDTKDQSP SRAPGLRQRA SNKVQDSAPV ETPRGKPPLN 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**



15% SDS-PAGE (4ug)

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

