

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, HMOX 1, HMOX1, HO, 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 QVTRDGFKLK MASLYHIYVA LEEEIERNKE SPVFAPVYFP
EELHRKAALE QDLAFWYGPR WQEVIPYTPA MORYVKRLHE VGRTEPELLV AHAYTRYLGD LSGGQVLKKI AQKALDLPSS
GEGLAFFTFP NIASATKFKQ LYRSRMNSLE MTPAVRQRVI EEAKTAFLLN IQLFEELQEL LTHDTKDQSP SRAPGLRQRA
SNKVQDSAPV ETPRGKPPLN TRSQAPLEHH HHHH

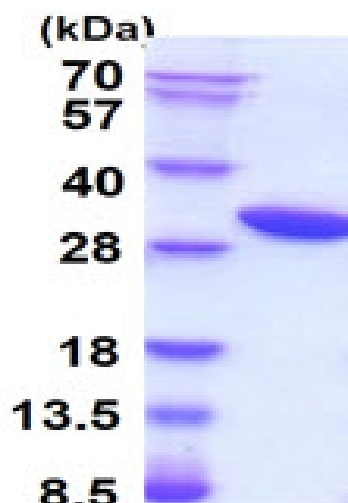
General References

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

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

DATA

SDS-PAGE



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

15% SDS-PAGE (4ug)