

# Recombinant Human Heme Oxygenase 1, His-tagged

**Cat. No.** HMOX1-137H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	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, 31.4 kDa (274 aa).
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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 cardiovascular function and its adaptive response to a variety of stressors.
<b>Sequences of amino acids</b>	MERPQPHSMP QDLSEALKEA TKEVHTQAEN AEFMRNFQKG QVTRDGFKLV MASLYHIYVA LEEEIERNKE SPVFAPVYFP EELHRKAALE QDLAFWYGPR WQEVIPYTPA MQRVYKRLHE VGRTEPELLV AHAYTRYLGD LSGGQVLKKI AQKALDLPSS GEGLAFFTFP NIASATKFKQ LYRSRMNSLE MTPAVRQRVI EEAKTAFLN IQLFEELQEL LTHDTKDQSP SRAPGLRQRA SNKVQDSAPV ETPRGKPPLN TRSQAPLEHH HHHH
<b>Formulation</b>	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 50 mM NaCl, 0.1 mM PMSF, 10% glycerol

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<b>Purity</b>	> 95% by SDS - PAGE
<b>Concentration</b>	1 mg/ml (determined by Bradford assay)
<b>Storage</b>	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

## GENE INFORMATION

<b>Gene Name</b>	HMOX1 heme oxygenase (decycling) 1 [ Homo sapiens ]
<b>Synonyms</b>	EC 1.14.99.3; HO; HO-1; HO1; HSP32; OTTHUMP00000028925; bK286B10; heme oxygenase (decycling) 1; heme oxygenase (decyclizing) 1;HMOX1; Heme oxygenase 1
<b>Gene ID</b>	3162
<b>mRNA Refseq</b>	NM_002133
<b>Protein Refseq</b>	NP_002124
<b>MIM</b>	141250
<b>UniProt ID</b>	P09601
<b>Chromosome Location</b>	22q12; 22q13.1
<b>Pathway</b>	Porphyrin and chlorophyll metabolism
<b>Function</b>	enzyme binding; heme binding; heme oxygenase (decyclizing) activity; metal ion

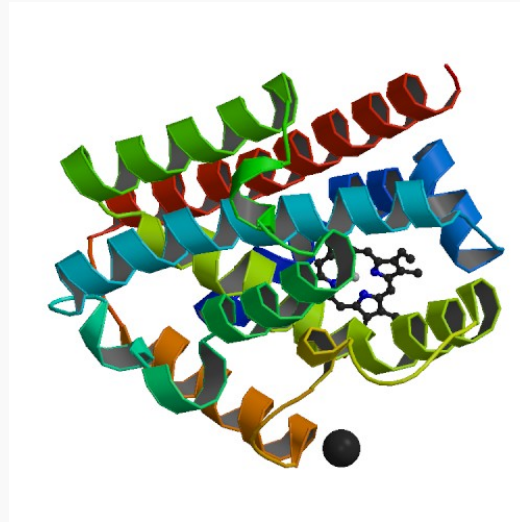
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binding; oxidoreductase activity; phospholipase D activity; signal transducer activity

PDBrendering based  
on 1n3u. Available  
structures: 1n3u, 1n45, 1r



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