

# Recombinant Human Heme Oxygenase 1, His-tagged

**Cat. No.** HMOX1-1703H    **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.
<b>Species</b>	Human
<b>Source</b>	Human
<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>Concentration</b>	1 mg/ml
<b>Form</b>	Supplied as a liquid in 20mM Tris-HCl buffer, pH 8.0, containing 50mM NaCl, 0.1mM PMSF, and 10% glycerol.
<b>Purity</b>	> 95% by SDS - PAGE
<b>Sequence</b>	1-266 amino acids: MERPQPHSMP QDLSEALKEA TKEVHTQAEN AEFMRNFQKG QVTRDGFKLV MASLYHIYVA LEEEIERNKE SPVFAPVYFP EELHRKAALE QDLAFWYGPR WQEVIPYTPA MQRVYVKRLHE VGRTEPELLV AHAYTRYLGD LSGGQVLKKI AQKALDLPSS GEGLAFFTFP NIASATKFKQ LYRSRMNSLE MTPAVRQRVI EEAKTAFLLN IQLF

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<b>Molecular Mass</b>	31.4 kDa (274 aa), confirmed by MALDI-TOF.
<b>Applications</b>	SDS-PAGE
<b>Endotoxin Levels</b>	< 1.0 EU per ug of protein (determined by LAL method)
<b>Storage</b>	Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or -70 deg C for long term storage. Avoid repeated freeze/thaw cycles.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	HMOX1 heme oxygenase (decycling) 1 [ Homo sapiens ]
<b>Official Symbol</b>	HMOX1
<b>Synonyms</b>	HMOX1; EC 1.14.99.3; HO; HO-1; HO1; HSP32; OTTHUMP00000028925; bK286B10; heme oxygenase (decycling) 1; heme oxygenase (decyclizing) 1; 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

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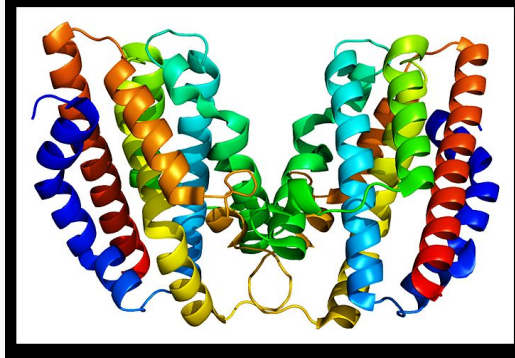
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**Pathway** Porphyrin and chlorophyll metabolism

**Function** enzyme binding; heme binding; heme oxygenase (decyclizing) activity; metal ion binding; oxidoreductase activity; phospholipase D activity; signal transducer activity

**PDB rendering  
based on 1n3u.**



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