

Recombinant Human Heme Oxygenase 1, His-tagged

Cat. No. HMOX1-1703H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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.
Species	Human
Source	Human
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 cardiovascular function and its adaptive response to a variety of stressors.
Concentration	1 mg/ml
Form	Supplied as a liquid in 20mM Tris-HCl buffer, pH 8.0, containing 50mM NaCl, 0.1mM PMSF, and 10% glycerol.
Purity	> 95% by SDS - PAGE
Sequence	1-266 amino acids: MERPQPHSMP QDLSEALKEA TKEVHTQAEN AEFMRNFQKG QVTRDGFGLV MASLYHIYVA LEEIEIERNKE SPVFAPVYFP EELHRKAALE QDLAFWYGPR WQEVIPYTPA MQRVVKRLHE VGRTEPELLV AHAYTRYLGD LSGGQVLKKI AQKALDLPSS GEGLAFFTFP NIASATKFKQ LYRSRMNSLE MTPAVRQRVI EEAKTAFLN IQLF

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Molecular Mass	31.4 kDa (274 aa), confirmed by MALDI-TOF.
Applications	SDS-PAGE
Endotoxin Levels	< 1.0 EU per ug of protein (determined by LAL method)
Storage	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.

GENE INFORMATION

Gene Name	HMOX1 heme oxygenase (decycling) 1 [Homo sapiens]
Official Symbol	HMOX1
Synonyms	HMOX1; EC 1.14.99.3; HO; HO-1; HO1; HSP32; OTTHUMP00000028925; bK286B10; heme oxygenase (decycling) 1; heme oxygenase (decyclizing) 1; Heme oxygenase 1
Gene ID	3162
mRNA Refseq	NM_002133
Protein Refseq	NP_002124
MIM	141250
UniProt ID	P09601
Chromosome Location	22q12; 22q13.1

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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

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