

Recombinant Human Heme Oxygenase 1, His-tagged

Cat. No. HMOX1-137H **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, 31.4 kDa (274 aa).
Species	Human
Source	E.coli
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.
Sequences of amino acids	MERPQPHSMP QDLSEALKEA TKEVHTQAEN AEFMRNFQKG QVTRDGFKL MASLYHIYVA LEEEIERNKE SPVFAPVYFP EELHRKAALE QDLAFWYGPR WQEVIPYTPA MQRVYKRLHE VGRTEPELLV AHAYTRYLGD LSGGQVLKKI AQKALDLPSS GEGLAFFTFP NIASATKFKQ LYRSRMNSLE MTPAVRQRVI EEAKTAFLLN IQLFEELQEL LTHDTKDQSP SRAPGLRQRA SNKVQDSAPV ETPRGKPPLN TRSQAPLEHH HHHH
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 50 mM NaCl, 0.1 mM PMSF, 10% glycerol

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Purity	> 95% by SDS - PAGE
Concentration	1 mg/ml (determined by Bradford assay)
Storage	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

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

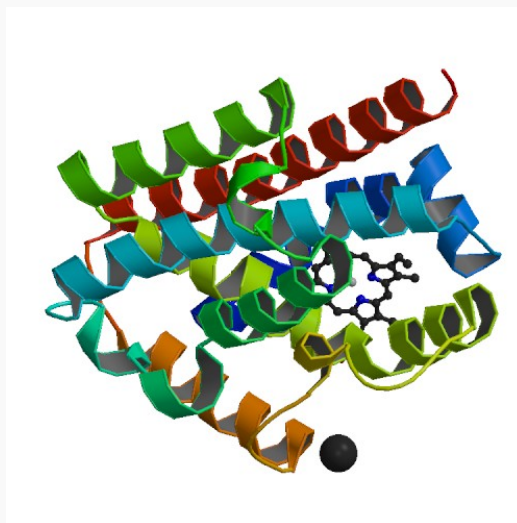
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binding; oxidoreductase activity; phospholipase D activity; signal transducer activity

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



3

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