Recombinant Human HMOX1, His-tagged

Cat. No. HMOX1-27877TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 1-266 of Human Heme Oxygenase 1 fused to His tag at C-terminus; 274 amino acids, 31.4 kDa.
Species	Human
Source	E.coli
ProteinLength	1-266 a.a.
Description	Heme oxygenase, an essential enzyme in heme catabolism, cleaves heme to form biliverdin, which is subsequently converted to bilirubin by biliverdin reductase, and carbon monoxide, a putative neurotransmitter. Heme oxygenase activity is induced by its substrate heme and by various nonheme substances. Heme oxygenase occurs as 2 isozymes, an inducible heme oxygenase-1 and a constitutive heme oxygenase-2. HMOX1 and HMOX2 belong to the heme oxygenase family.
Conjugation	HIS
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 10% Glycerol, 50mM Sodium chloride, 20mM Tris HCl, 0.1mM PMSF, pH 8

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Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MERPQPHSMP QDLSEALKEA TKEVHTQAEN AEFMRNFQKG QVTRDGFKLV MASLYHIYVA LEEEIERNKE SPVFAPVYFP EELHRKAALE QDLAFWYGPR WQEVIPYTPA MQRYVKRLHE VGRTEPELLV AHAYTRYLGD LSGGQVLKKI AQKALDLPSS GEGLAFFTFP NIASATKFKQLYRSRMNSLE MTPAVRQRVI EEAKTAFLLN IQLFEELQEL LTHDTKDQSP SRAPGLRQRA SNKVQDSAPV ETPRGKPPLN TRSQAPLEHH HHHH
Sequence Similarities	Belongs to the heme oxygenase family.

GENE INFORMATION

Gene Name	HMOX1 heme oxygenase (decycling) 1 [Homo sapiens]
Official Symbol	HMOX1
Synonyms	HMOX1; heme oxygenase (decycling) 1; heme oxygenase 1; bK286B10; HO 1;
Gene ID	3162
mRNA Refseq	NM_002133
Protein Refseq	NP_002124
MIM	141250
Uniprot ID	P09601

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Chromosome Location	22q12
Pathway	HIF-1-alpha transcription factor network, organism-specific biosystem; Heme degradation, organism-specific biosystem; Iron uptake and transport, organism-specific biosystem; Keap1-Nrf2 Pathway, organism-specific biosystem; Metabolism, organism-specific biosystem;
Function	enzyme binding; heme binding; heme oxygenase (decyclizing) activity; heme oxygenase (decyclizing) activity; metal ion binding;

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