

## Recombinant Human HMOX1, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-266 a.a.
<b>Description</b>	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.
<b>Conjugation</b>	HIS
<b>Form</b>	Liquid
<b>Purity</b>	>95% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 10% Glycerol, 50mM Sodium chloride, 20mM Tris HCl, 0.1mM PMSF, pH 8

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Storage</b>	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Sequences of amino acids</b>	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
<b>Sequence Similarities</b>	Belongs to the heme oxygenase family.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">HMOX1 heme oxygenase (decycling) 1 [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">HMOX1</a>
<b>Synonyms</b>	HMOX1; heme oxygenase (decycling) 1; heme oxygenase 1; bK286B10; HO 1;
<b>Gene ID</b>	<a href="#">3162</a>
<b>mRNA Refseq</b>	<a href="#">NM_002133</a>
<b>Protein Refseq</b>	<a href="#">NP_002124</a>
<b>MIM</b>	<a href="#">141250</a>
<b>Uniprot ID</b>	<a href="#">P09601</a>

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<b>Chromosome Location</b>	22q12
<b>Pathway</b>	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;
<b>Function</b>	enzyme binding; heme binding; heme oxygenase (decyclizing) activity; heme oxygenase (decyclizing) activity; metal ion binding;

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