

## Recombinant Human HMOX2

Cat. No. HMOX2-27005TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human Heme oxygenase 2 with N-terminal proprietary tag; amino acids 1-316, 62kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-316 a.a.
<b>Description</b>	<p>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. Alternative splice variants encoding the same protein have been identified at this locus.</p>
<b>Form</b>	Liquid
<b>Storage buffer</b>	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM PMSF, pH 7.5
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

 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>Sequence Similarities</b>	Belongs to the heme oxygenase family. Contains 2 HRM (heme regulatory motif) repeats.
<b>Full Length</b>	Full L.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	HMOX2 heme oxygenase (decycling) 2 [ Homo sapiens ]
<b>Official Symbol</b>	HMOX2
<b>Synonyms</b>	HMOX2; heme oxygenase (decycling) 2; heme oxygenase 2; HO 2;
<b>Gene ID</b>	3163
<b>mRNA Refseq</b>	NM_001127204
<b>Protein Refseq</b>	NP_001120676
<b>MIM</b>	141251
<b>Uniprot ID</b>	P30519
<b>Chromosome Location</b>	16p13.3
<b>Pathway</b>	Heme degradation, organism-specific biosystem; Iron uptake and transport, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of porphyrins, organism-specific biosystem; Mineral absorption, organism-specific biosystem;
<b>Function</b>	electron carrier activity; heme oxygenase (decyclizing) activity; metal ion binding;

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oxidoreductase activity; protein binding;

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