

Recombinant Human HMOX1

Cat. No. HMOX1-27002TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Heme Oxygenase 1 , MWt 32kDa.
Species	Human
Source	E.coli
ProteinLength	288 amino acids
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.
Molecular Weight	32.000kDa
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	pH: 7.50 Constituents: 0.79% Tris HCl, 2% Glycerol, 0.02% DTT, 2.63% Sodium chloride, 0.002% PMSF
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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

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cycles.

**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

**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

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oxygenase (decyclizing) activity; metal ion binding;

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