

# Recombinant Human HMOX1

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

## SPECIFICATION

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

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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 (deacylizing) activity; metal ion binding;

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