

## Recombinant Human HMOX2

**Cat. No.** HMOX2-27003TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment, corresponding to amino acids 1-264 of Human Heme oxygenase 2; 264 amino acids, MWt 30.5 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-264 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. Alternative splice variants encoding the same protein have been identified at this locus.
<b>Form</b>	Liquid
<b>Purity</b>	>90% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 10% Glycerol, 20mM Tris, 1mM DTT, pH 8.0
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

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**Sequences of amino acids**

MSAEVETSEG VDESEKKN SG ALEKENQMRM ADLSELLKEG TKEAH DRAEN  
 TQFVKDFLKG NIKKELFKLA TTALYFTYSA LEEEMERNKD HPAFAPLYFP  
 MELHRKEALT KDMEYFFGEN WEEQVQCPKA AQKYVERIHY IGQNEPELLV  
 AHAYTRYMGD LSGGQVLK KV AQRALKLPST GEGTQFYLF E NVDNAQQFKQ  
 LYRARMNALD LNMKTKERIV EEANKAFEYN MQIFNELDQA GSTLARETLE  
 DGFPVHDGKG DMRK

**Sequence Similarities** Belongs to the heme oxygenase family. Contains 2 HRM (heme regulatory motif) repeats.

## GENE INFORMATION

**Gene Name** [HMOX2 heme oxygenase \(decycling\) 2 \[ Homo sapiens \]](#)

**Official Symbol** [HMOX2](#)

**Synonyms** HMOX2; heme oxygenase (decycling) 2; heme oxygenase 2; HO 2;

**Gene ID** [3163](#)

**mRNA Refseq** [NM\\_001127204](#)

**Protein Refseq** [NP\\_001120676](#)

**MIM** [141251](#)

**Uniprot ID** [P30519](#)

**Chromosome Location** 16p13.3

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**Pathway**

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;

**Function**

electron carrier activity; heme oxygenase (decyclizing) activity; metal ion binding; oxidoreductase activity; protein binding;

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