

Recombinant Human HMOX2

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

SPECIFICATION

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

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Sequence Similarities	Belongs to the heme oxygenase family.Contains 2 HRM (heme regulatory motif) repeats.
Full Length	Full L.
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
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;

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oxidoreductase activity; protein binding;

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