

Recombinant Human HMOX2

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

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 1-264 of Human Heme oxygenase 2; 264 amino acids, MWt 30.5 kDa.
Species	Human
Source	E.coli
ProteinLength	1-264 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
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 20mM Tris, 1mM DTT, pH 8.0
Storage	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 VDESEKKNSG ALEKENQMRM ADLSELLKEG TKEAHDRAEN
TQFVKDFLKG NIKKELFKLA TTALYFTYSA LEEEMERNKD HPAFAPLYFP
MELHRKEALT KDMEYFFGEN WEEQVQCPKA AQKYVERIHV IGQNEPELLV
AHAYTRYMGD LSGGQVLKKV AQRALKLPST GEGTQFYLFE 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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