

Recombinant Human Heme Oxygenase (Decycling) 2

Cat. No. HMOX2-1343H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HMOX2 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 264 amino acids (1-264 a.a.) and having a molecular mass of 30.5 kDa. HMOX2 is purified by proprietary chromatographic techniques.
Species	Human
Source	Human
ProteinLength	1-264 a.a.
Description	HMOX2 cleaves the heme ring at the alpha methene bridge to form biliverdin. Biliverdin is subsequently transferred to bilirubin by biliverdin reductase. Under physiological conditions, the activity of HMOX2 is highest in the spleen, where senescent erythrocytes are sequestered and destroyed. HMOX2 participates in the production of carbon monoxide in the brain where it operates as a neurotransmitter. HMOX2 is an essential enzyme in heme catabolism and is involved in cellular response to oxidative stress.
Form	HMOX2 solution containing 20mM Tris pH-8, 1mM DTT and 10% glycerol.
Purity	Greater than 90% as determined by SDS-PAGE.
Physical Appearance	Sterile filtered colorless solution.
Amino acid	SAEVETSEG VDESEKKNSG ALEKENQMRM ADLSELLKEG TKEAHDRAEN

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sequence

TQFVKDFLKG NIKKELFKLA TTALYFTYSA LEEEMERNKD HPAFAPLYFP
 MELHRKEALT KDMEYFFGEN WEEQVQCPKA AQKYVERIHY IGQNEPELLV
 AHAYTRYMGD LSGGQVLKKV AQRALKLPST GEGTQFYLF NVDNAQQFKQ
 LYRARMNALD LNMKTKERIV EEANKAFEYN MQIFNELDQA GSTLARETLE
 DGFPVHDGKG DMRK.

Storage

HMOX2 Human Recombinant although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

GENE INFORMATION

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

Official Symbol HMOX2

Synonyms HMOX2; heme oxygenase (decycling) 2; HO-2; EC 1.14.99.3; HO2; heme oxygenase (decyclizing) 2; Heme oxygenase 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 Porphyrin and chlorophyll metabolism

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

PDBrendering based on 2q32.

