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 sequestrated 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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

sequence	TQFVKDFLKG NIKKELFKLA TTALYFTYSA LEEEMERNKD HPAFAPLYFP MELHRKEALT KDMEYFFGEN WEEQVQCPKA AQKYVERIHY IGQNEPELLV AHAYTRYMGD LSGGQVLKKV AQRALKLPST GEGTQFYLFE 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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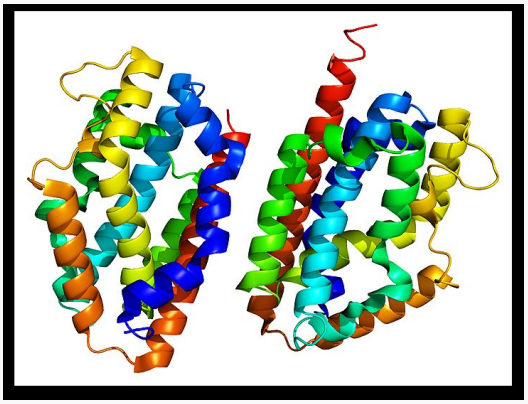
Pathway	Porphyrin and chlorophyll metabolism
Function	electron carrier activity; heme oxygenase (decyclizing) activity; iron ion binding; metal ion binding; oxidoreductase activity; protein binding
PDBrendering based on 2q32.	

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