

Recombinant Human HMOX2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. HMOX2-4208H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HMOX2 MS Standard C13 and N15-labeled recombinant protein (NP_002125) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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. Several alternatively spliced transcript variants encoding three different isoforms have been found for this gene.
Molecular Mass	36 kDa
AA Sequence	MSAEVETSEGVDESEKKNNGALEKENQMRMADLSELLKEGTKEAHDRAENTQFVK DFLKGNIKKELFKLATTALYFTYSALEEEEMERNKDHAPAFAPLYFPMELHRKEALTKDM EYFFGENWEEQVQCPKAAQKYVERIHIGQNEPELLVAHAYTRYMGDLSSGGQVLKK VAQRALKLPSTGEGTQFYLFENVDNAQQFKQLYRARMNALDLNMKTKERIVEEANK AFEYNMQIFNELDQAGSTLARETLEDGFPVHDGKGDMRKCPFYAAEQDKGALEGS

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	SCPFRTAMAVLRKPSLQFILAAGVALAAGLLAWYYMTRTRPLEQKLISEEDLAANDIL DYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	HMOX2 heme oxygenase 2 [Homo sapiens (human)]
Official Symbol	HMOX2
Synonyms	HMOX2; heme oxygenase (decycling) 2; heme oxygenase 2; HO 2; HO-2;
Gene ID	3163
mRNA Refseq	NM_002134
Protein Refseq	NP_002125
MIM	141251
UniProt ID	P30519

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