

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

Cat. No. HMOX2-2753H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

HMOX2 MS Standard C13 and N15-labeled recombinant protein (NP_001120678) 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
 DFLKGNIKKELFKLATTALYFTYSALEEEMERNKDHAPAFAPLYFPMELHRKEALTKDM
 EYFFGENWEEQVQCPKAAQKYVERIHIGQNEPELLVAHAYTRYMGDLSGGQVLKK
 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_001127206

Protein Refseq NP_001120678

MIM 141251

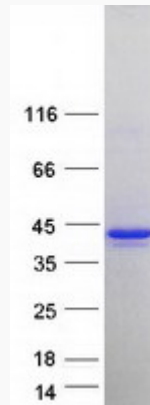
UniProt ID P30519

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SDS-PAGE



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