

Product datasheet for **TP300463**

Heme Oxygenase 1 (HMOX1) (NM_002133) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human heme oxygenase (decycling) 1 (HMOX1), 20 µg

Species: Human

Expression Host: HEK293T

**Expression cDNA Clone
or AA Sequence:** >RC200463 protein sequence
Red=Cloning site **Green**=Tags(s)

MERPQPDSMPQDLSEALKEATKEVHTQAENAEFMRNFQKGQVTRDGFKLVMASLYHIYVALEEEIERNKE
SPVFAPVYFPEELHRKAALQDLAFWYGPRWQEVIPYTPAMQHVKRLHEVGRTEPELLVAHAYTRYLGD
LSGGQVLKKAQKALDLPSSGEGLAFFTFPNIASATKFKQLYRSRMNSLEMPAVRQRVIEEAKTAFLLN
IQLFEELQELLTHDTKDQSPSRAPGLRQRASNKVQDSAPVETPRGKPLNTRSQAPLLRWLTL SFLVAT
VAVGLYAM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 32.6 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_002124](#)

Locus ID: 3162



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UniProt ID: [P09601](#), [Q6FH11](#)

RefSeq Size: 1606

Cytogenetics: 22q12.3

RefSeq ORF: 864

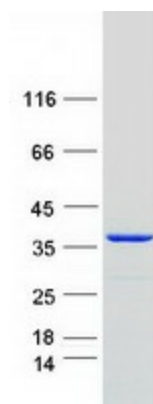
Synonyms: bK286B10; HMOX1D; HO-1; HSP32

Summary: 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. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Porphyrin and chlorophyll metabolism

Product images:



Coomassie blue staining of purified HMOX1 protein (Cat# TP300463). The protein was produced from HEK293T cells transfected with HMOX1 cDNA clone (Cat# [RC200463]) using MegaTran 2.0 (Cat# [TT210002]).