

## Product datasheet for **TP300463M**

### 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), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200463 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MERPQPDSMPQDLSEALKEATKEVHTQAENAEFMRNFQKGQVTRDGFKLVMASLYHIYVALEEEIERNKE SPVFAPVYFPEELHRKAALQDLAFWYGPRWQEVIPYTPAMQHVKRLHEVGRTEPELLVAHAYTRYLGD LSGGQVLKKAQKALDLPSSGEGLAFFTFPNIASATKFKQLYRSRMNSLEMPAVRQRVIEEAKTAFLLN IQLFEELQELLTHDTKDQSPSRAPGLRQRASNKVQDSAPVETPRGKPLNTRSQAPLLRWLTLNFLVAT VAVGLYAM</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
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:	<a href="#">NP_002124</a>
Locus ID:	3162



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

RefSeq Size: 1606

Cytogenetics: 22q12.3

RefSeq ORF: 864

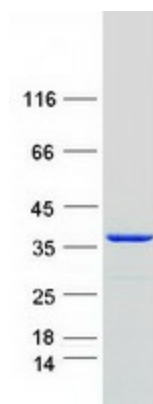
Synonyms: bK286B10; HMOX1D; HO-1; HSP32

**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]).