

Product datasheet for PH300463

Heme Oxygenase 1 (HMOX1) (NM_002133) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	HMOX1 MS Standard C13 and N15-labeled recombinant protein (NP_002124)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200463
Predicted MW:	32.8 kDa
Protein Sequence:	>RC200463 protein sequence Red =Cloning site Green =Tags(s) MERPQDPSMPQDLSEALKEATKEVHTQAENAEFMRNFQKGQVTRDGFKLVMSLYHIYVALEEEIERNKE SPVFAPVYFPEELHRKAALQDLAFWYGPRWQEVIPYTPAMQHYYKRLHEVGRTEPELLVAHAYTRYLGD LSGGQVLKKAIAQKALDLPSSGEGLAFFTFPNIASATKFKQLYRSRMSLEMTPAVRQRVIEEAKTAFLLN IQLFEELQELLTHDTKDQSPSRAPGLRQRASNKVQDSAPVETPRGKPLNTRSQAPLLRWLTL SFLVAT VAVGLYAM TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_002124</u>
RefSeq Size:	1606
RefSeq ORF:	864
Synonyms:	bK286B10; HMOX1D; HO-1; HSP32
Locus ID:	3162



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

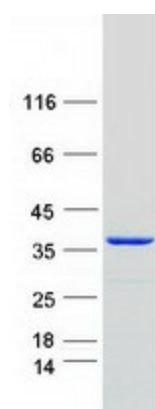
Cytogenetics: 22q12.3

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]).