

## Product datasheet for PH301777

### Heme oxygenase 2 (HMOX2) (NM\_002134) Human Mass Spec Standard

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Mass Spec Standards  |
| Description:                          | HMOX2 MS Standard C13 and N15-labeled recombinant protein (NP_002125)  |
| Species:                              | Human  |
| Expression Host:                      | HEK293   |
| Expression cDNA Clone or AA Sequence: | RC201777   |
| Predicted MW:                         | 36 kDa   |
| Protein Sequence:                     | >RC201777 protein sequence<br>Red=Cloning site Green=Tags(s)<br><br>MSAEVETSEGVDSEKKNSGALEKENQMRMADLSELLKEGTKEAHDRAENTQFVKDFLKGNIKKELFKLATTALYFTYSALEEEEMERNKDHPAFAPLYFPMELHRKEALTKDMEYFFGENWEEQVQCPKAAQKYVERIHYIGQNEPELLVAHAYTRYMGDLGGQVLKKAQRALKLPSTGEGTQFYLFENVDNAQQFKQLYRARMNALDLNMKTKERIVEEANKAFEYNMQIFNELDQAGSTLARETLEDGFPVHDGKGMKPCPFYAAEQDKGALEGS<br>SCPFRTAMAVLRKPSLQFILAAGVALAAGLLAWYYM<br><br>TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| 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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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><a href="#">NP_002125</a></u>   |
| RefSeq Size:                          | 1754   |
| RefSeq ORF:                           | 948  |
| Synonyms:                             | HO-2   |
| Locus ID:                             | 3163   |



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UniProt ID: [P30519](#)

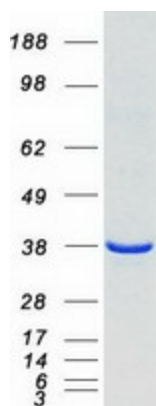
Cytogenetics: 16p13.3

**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. Several alternatively spliced transcript variants encoding three different isoforms have been found for this gene. [provided by RefSeq, Oct 2013]

**Protein Families:** Transmembrane

**Protein Pathways:** Porphyrin and chlorophyll metabolism

### Product images:



Coomassie blue staining of purified HMOX2 protein (Cat# [TP301777]). The protein was produced from HEK293T cells transfected with HMOX2 cDNA clone (Cat# [RC201777]) using MegaTran 2.0 (Cat# [TT210002]).