



# Recombinant Mouse Heme oxygenase 1 (Hmox1)

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| <b>Product Code</b>      | CSB-MP010583MO                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage</b>           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.                                                                                                                                                                                        |
| <b>Uniprot No.</b>       | P14901                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Immunogen Species</b> | Mus musculus (Mouse)                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>            | ≥85% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Sequence</b>          | MERPQPDSMP QDLSEALKEA TKEVHIQAEN AEFMKNFQKG QVSREGFKLV<br>MASLYHIYTA LEEIEIERNKQ NPVYAPLYFP EELHRRAALE QDMAFWYGPH<br>WQEIIPCTPA TQHYVKRLHE VGRTHPELLV AHAYTRYLGD LSGGQVLKKI<br>AQKAMALPSS GEGLAFFTFP NIDSPTKFKQ LYRARMNTLE MTPEVKHRVT<br>EEAKTAFLLN IELFEELQVM LTEEHKDQSP SQMASLRQRP ASLVQDTAPA<br>ETPRGKPKIS TSSSQTPLLQ WVLTL SFLA TVAVGIYAM                                                                                                                             |
| <b>Source</b>            | Mammalian cell                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Target Names</b>      | Hmox1                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Protein Names</b>     | Recommended name: Heme oxygenase 1 Short name= HO-1 EC= 1.14.99.3<br>Alternative name(s): P32 protein                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Expression Region</b> | 1-289                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4? for up to one week.                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Protein Length</b>    | Full length protein                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Target Details</b>    | 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. |
| <b>Reconstitution</b>    | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.                                                               |
| <b>Shelf Life</b>        | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life                                                                                                                                                                                                                                         |



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