



# Recombinant Rat Heme oxygenase 1 (Hmox1)

<b>Product Code</b>	CSB-BP010583RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P06762
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MERPQLDSMS QDLSEALKEA TKEVHIRAEN SEFMRNFQKG QVSREGFKLV MASLYHIYTA LEEEIERNKQ NPVYAPLYFP EELHRRAALE QDMAFWYGPH WQEAIPYTPA TQHYVKRLHE VGGTHPELLV AHAYTRYLGD LSGGQVLKKI AQKAMALPSS GEGLAFFTFP SIDNPTKFKQ LYRARMNTLE MTPEVKHRVT EEAKTAFLLN IELFEELQAL LTEEHKDQSP SQTEFLRQRP ASLVQDTTSA ETPRGKSQIS TSSSQTPLLR WVLTL SFLLA TVAVGIYAM
<b>Source</b>	Baculovirus
<b>Target Names</b>	Hmox1
<b>Protein Names</b>	Recommended name: Heme oxygenase 1 Short name= HO-1 EC= 1.14.99.3 Alternative name(s): HSP32
<b>Expression Region</b>	1-289
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C 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. 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.