



# Recombinant Rat Heme oxygenase 2 (Hmox2)

<b>Product Code</b>	CSB-EP010584RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P23711
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	SSEVETSEG VDESENNSTA PEKENHTKMA DLSELLKEGT KEAHDRAENT QFVKDFLKGKGN IKKELFKLAT TALYFTYSAL EEEMDRNKDH PAFAPLYFPT ELHRKEALIK DMEYFFGENW EEQVKCSEAA QKYVDRIHYV GQNEPELLVA HAYTRYMGDL SGGQVLKKVA QRALKLPSTG EGTQFYLFEB VDNAQQFKQF YRARMNALDL SMKTKERIVE EANKAFEYNM QIFSELDQAG SMLTKETLED GLPVHDGKGD VRKCPFYAAQ PDKGTLGGSN CPFRTAMAVL RKPSLQLILA ASVALVAGLL AWYYM
<b>Source</b>	E.coli
<b>Target Names</b>	Hmox2
<b>Protein Names</b>	Recommended name: Heme oxygenase 2 Short name= HO-2 EC= 1.14.99.3
<b>Expression Region</b>	2-315
<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 of Mature 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. Alternative splice variants encoding the same protein have been identified at this locus.
<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.