Recombinant Rat HMOX1 Protein (1-289 aa), His-tagged

Cat. No. HMOX1-2493R **Lot. No.** (See product label)

SPECIFICATION

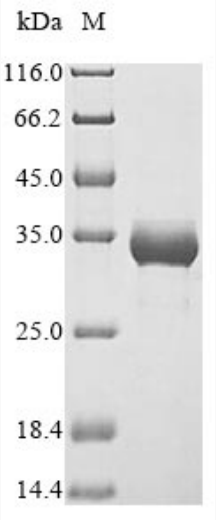
Product Overview	Recombinant Rat HMOX1 Protein (1-289 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Cell Biology. Protein Description: Full Length.
Species	Rat
Source	Yeast
ProteinLength	1-289 aa
Description	Heme oxygenase cleaves the heme ring at the alpha methene bridge to form biliverdin. Biliverdin is subsequently converted to bilirubin by biliverdin reductase. Under physiological conditions, the activity of heme oxygenase is highest in the spleen, where senescent erythrocytes are sequestrated and destroyed. Exhibits cytoprotective effects since excess of free heme sensitizes cells to undergo apoptosis.
Form	Tris-based buffer,50% glycerol
Molecular Mass	35.0 kDa
AA Sequence	MERPQLDSMSQDLSEALKEATKEVHIRAENSEFMRNFQKGQVSREGFKLVMASLY HIYTALEEEIERNKQNPVYAPLYFPEELHRRAALEQDMAFWYGPHWQEAIPYTPATQ HYVKRLHEVGGTHPELLVAHAYTRYLGDLSGGQVLKKIAQKAMALPSSGEGLAFFTF PSIDNPTKFKQLYRARMNTLEMTPEVKHRVTEEAKTAFLLNIELFEELQALLTEEHKD

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	QSPSQTEFLRQRPASLVQDTTSAETPRGKSQISTSSSQTPLLRWVLTLSFLLATVAVGIYAM
Purity	> 85% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

Gene Name	Hmox1 heme oxygenase (decycling) 1 [Rattus norvegicus]
Official Symbol	HMOX1
Synonyms	HMOX1; heme oxygenase (decycling) 1; heme oxygenase 1; Ho1; Heox; Hmox; Ho-1; HEOXG; hsp32;
Gene ID	24451
mRNA Refseq	NM_012580
Protein Refseq	NP_036712

UniProt ID	P06762
	 (Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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