

Recombinant Rat Hmox1 Protein, His-tagged

Cat. No. Hmox1-2758R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Hmox1 Protein (Met1-Met289) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Met1-Met289
Description	Enables several functions, including heme binding activity; heme oxygenase (decyclizing) activity; and phospholipase D activity. Involved in several processes, including intracellular signal transduction; negative regulation of apoptotic process; and regulation of gene expression. Located in several cellular components, including caveola; endoplasmic reticulum; and nucleolus. Used to study several diseases, including artery disease (multiple); cerebrovascular disease (multiple); hepatic vascular disease (multiple); limb ischemia; and sciatic neuropathy. Biomarker of several diseases, including Sjogren's syndrome; artery disease (multiple); brain disease (multiple); liver disease (multiple); and lung disease (multiple). Human ortholog(s) of this gene implicated in several diseases, including artery disease (multiple); cerebrovascular disease (multiple); factor VIII deficiency; lung disease (multiple); and type 2 diabetes mellitus. Orthologous to human HMOX1 (heme oxygenase 1).
Form	Freeze-dried powder

 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

Molecular Mass	Predicted Molecular Mass: 36.7 kDa Accurate Molecular Mass: 35 kDa
Purity	> 80%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Hmox1 heme oxygenase 1 [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Hmox1
Synonyms	Hmox1; heme oxygenase 1; Ho1; Heox; Hmox; Ho-1; HEOXG; hsp32; heme oxygenase 1; heme oxygenase (decycling) 1; heme oxygenase (decyclizing) 1; EC 1.14.14.18

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Gene ID	24451
mRNA Refseq	NM_012580
Protein Refseq	NP_036712
UniProt ID	P06762

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