

## Recombinant Rat Hmox1 Protein, His-tagged

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Rat Hmox1 Protein (Met1-Met289) with N-His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | Met1-Met289                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | 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). |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                       |                                                                                                                                                                                                                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b> | Predicted Molecular Mass: 36.7 kDa<br>Accurate Molecular Mass: 35 kDa                                                                                                                                                                                                                                                                        |
| <b>Purity</b>         | > 80%                                                                                                                                                                                                                                                                                                                                        |
| <b>Applications</b>   | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                   |
| <b>Stability</b>      | 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. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Storage Buffer</b> | 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                          |
| <b>Reconstitution</b> | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                            |

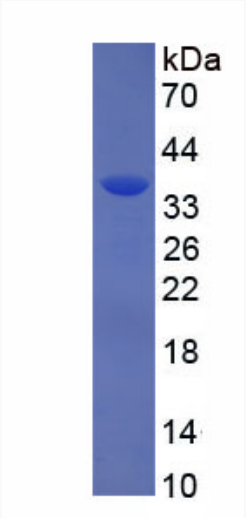
## GENE INFORMATION

|                        |                                                                                                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Hmox1 heme oxygenase 1 [ Rattus norvegicus (Norway rat) ]                                                                                                   |
| <b>Official Symbol</b> | Hmox1                                                                                                                                                       |
| <b>Synonyms</b>        | 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 |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                                                                                     |           |
|-------------------------------------------------------------------------------------|-----------|
| <b>Gene ID</b>                                                                      | 24451     |
| <b>mRNA Refseq</b>                                                                  | NM_012580 |
| <b>Protein Refseq</b>                                                               | NP_036712 |
| <b>UniProt ID</b>                                                                   | P06762    |
|  |           |