

Recombinant Rat Gpx6 protein, His & T7-tagged

Cat. No. Gpx6-1109R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Gpx6 aa. (Gln20~Gln221 (Accession # Q64625) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Rat
Source	E.coli
ProteinLength	Gln20~Gln221
Description	This gene encodes a member of the glutathione peroxidase family. Glutathione peroxidases catalyze the reduction of a variety of hydroperoxides using glutathione as a specific electron donor substrate, and thereby protect cells against oxidative damage. Expression of this gene is restricted to embryos and adult olfactory epithelium. The mouse and rat orthologs contain a cysteine (Cys) residue at the active site, unlike the human counterpart, which is a selenoprotein, containing selenocysteine (Sec) instead.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 26.5kDa.
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%

 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

Characteristic	The isoelectric point is 5.4.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in sterile ddH ₂ O.

GENE INFORMATION

Gene Name	Gpx6 glutathione peroxidase 6 [Rattus norvegicus (Norway rat)]
Official Symbol	Gpx6
Synonyms	Gpx6; glutathione peroxidase 6; OBPII; Ry2d1; GPx-6; GSHPx-6; odorant-metabolizing protein RY2D1
Gene ID	259233
mRNA Refseq	NM_147165.2

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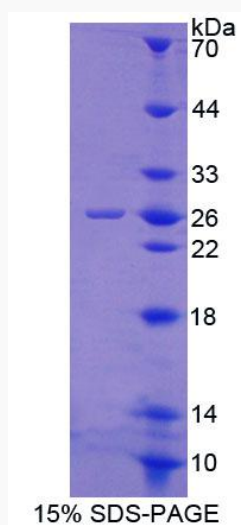
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Protein Refseq NP_671694.1

UniProt ID Q64625

SDS-PAGE



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