

Recombinant Rat Gpx6 protein, His & T7-tagged

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

SPECIFICATION

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| 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% |

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| 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

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| Gene Name | Gpx6 glutathione peroxidase 6 [<i>Rattus norvegicus</i> (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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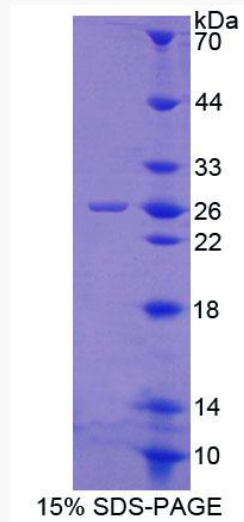
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Protein Refseq NP_671694.1

UniProt ID Q64625

SDS-PAGE



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