Human GPX7 / Glutathione Peroxidase 7 Protein (Fc Tag)

Catalog Number: **12651-H02H**

Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

CL683; GPx-7; GPX6; GSHPx-7; NPGPx; 3110050F08Rik; AI327032; GPX6

Protein Construction:

A DNA sequence encoding the human GPX7 (NP_056511.2) (Met1-Leu187) was expressed, fused with the Fc region of human IgG1 at the C-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per μg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 ℃

Predicted N terminal: Gln 20

Molecular Mass:

The recombinant human GPX7/Fc is a disulfide-linked homodimer. The reduced monomer comprises 408 amino acids and has a predicted molecular mass of 46.1 kDa. The apparent molecular mass of the protein is approximately kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

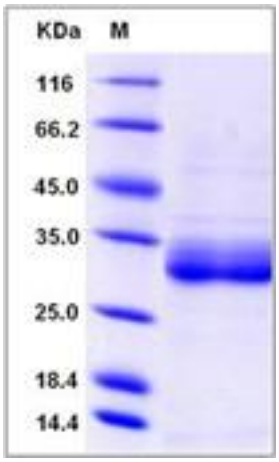
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

GPX7 gene contains 3 distinct gt-ag introns. Transcription produces 4 different mRNAs, 3 alternatively spliced variants and 1 unspliced form. There are 5 validated alternative polyadenylation sites. The mRNAs appear to differ by overlapping exons with different boundaries. GPX7 is an enzyme. It has molecular functions (glutathione peroxidase activity, oxidoreductase activity) and to localize in various compartments (extracellular space, extracellular region). GPX7 gene has been proposed to participate in pathways (Arachidonic acid metabolism, Glutathione metabolism) and processes (oxidation reduction, response to oxidative stress). GPX7 modulates the bone turnover after ovariectomy in rats, it does not compensate for the action of estrogen after ovariectomy in rats. It has been shown that three mAbs (GPX7, GPX22 and GPZ35) inhibit IL-6-mediated biological responses such as Ig production in a human B cell line and proliferative responses of a human Lennert's lymphoma-derived T cell line, a human myeloma cell line, and a mouse pro-B cell line-derived transfectant expressing human gp130.

References

1.Rual JF, *et al*. (2005) Towards a proteome-scale map of the human protein-protein interaction network. Nature. 437(7062):1173-8.
2.Gregory SG, *et al*. (2006) The DNA sequence and biological annotation of human chromosome 1. Nature. 441(7091):315-21.
3.Lim J, *et al*. (2006) A protein-protein interaction network for human inherited ataxias and disorders of Purkinje cell degeneration. Cell. 125(4):801-14.