

Recombinant Human Pentraxin 3 protein (His Tag)

Catalog Number: Eg1303

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Human Pentraxin 3 protein Glu18-Ser381 (Accession# P26022) with a His tag at the C-terminus.

GeneID:

5806

Accession:

P26022

Predicted Molecular Mass:

41.2 kDa

SDS-PAGE:

40-48 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Pentraxin 3 (PTX3), also known as TNF-inducible gene 14 protein (TSG-14), is a member of the pentraxin superfamily which consists of evolutionarily conserved proteins characterized by a structural motif99, the pentraxin domain. Pentraxin 3 can be produced by a variety of cell types including endothelial cells, smooth muscle cells, adipocytes, fibroblasts, mononuclear phagocytes, and dendritic cells, and its expression is induced by primary inflammatory signals, such as IL-1, TNF, and microbial moieties. Pentraxin 3 is an acute-phase glycoprotein that plays a role in regulating innate resistance to pathogens, inflammation, tissue remodeling and repair, female fertility, and cancer. Pentraxin 3 is a biomarker for cardiovascular disease. Increased plasma Pentraxin 3 levels have been found in patients with cardiovascular disorders.

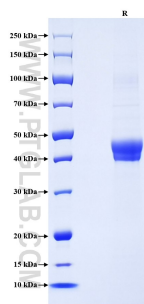
References

1. Garlanda C. et al. (2005). Annu Rev Immunol. 23:337-66.
2. Garlanda C. et al. (2018). Physiol Rev. 98(2):623-639.
3. Inoue K. et al. (2012). Int J Vasc Med. 2012:657025.
4. Ristagno G. et al. (2019). Front Immunol. 10:823.

Synonyms

PTX3, Pentaxin related protein PTX3, Pentaxin-related protein PTX3, Pentraxin related protein PTX3, Pentraxin-related protein PTX3

Selected Validation Data



Purity of Recombinant Human Pentraxin 3 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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