

For Research Use Only

Recombinant Human NPRC/NPR3 protein (rFc Tag)



Catalog Number: Eg2988

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Human NPRC protein Gly27-GLu481 (Accession# P17342-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

4883

Accession:

P17342-1

Predicted Molecular Mass:

76.4 kDa

SDS-PAGE:

76-85 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

NPR3 (Natriuretic Peptide Receptor 3) is a widely expressed natriuretic peptide receptor that mediates natriuretic peptide degradation and plays a role in the regulation of endochondral ossification and bone growth, as well as acting as a tumor suppressor or promoter in some types of cancers. NPR3 may function differently in different types of cancers, and the up-regulation of NPR3 upregulation of NPR3 promotes the proliferation of colorectal cancer cells, and knockdown promotes the metastasis of clear cell renal cell carcinoma. It has been suggested that NPR3 may act as a new tumor suppressor by blocking the PI3K/AKT pathway and is regulated by POU2F1 transcription.

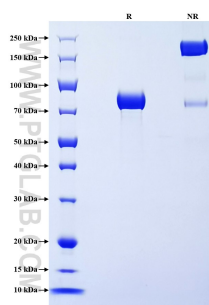
References

1. Li S. et al. (2021) Cell Signal. 86:110074.
2. Devotta A. et al. (2023) Elife. 12:e84036.
3. Dabaghie D. et al. (2024) Sci Rep. 14(1):11850.

Synonyms

NPR3, ANP C, ANP-C, ANPR C, ANPRC

Selected Validation Data



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

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

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