

For Research Use Only

# Recombinant Human NPTN protein (rFc Tag)



Catalog Number: Eg5652

## Basic Information

**Species:**  
Human

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**

>90 %, SDS-PAGE

**Endotoxin Level:**

<0.1 EU/  $\mu$ g protein, LAL method

**Source:**

HEK293-derived Human NPTN protein Gln29-Pro339 (Accession# Q9Y639-2) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**

27020

**Accession:**

Q9Y639-2

**Predicted Molecular Mass:**

60.6 kDa

**SDS-PAGE:**

68-85 kDa, reducing (R) conditions

**Formulation:**

Lyophilized from 0.22  $\mu$ m 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

Neuroplastin (Nptn) is a member of the Ig superfamily and is expressed in two isoforms, Np55 and Np65. Np65 contains three Ig domains (Ig1, Ig2, Ig3). Np55 contains only two (Ig2, Ig3). Np65 regulates synaptic transmission, but the function of Np55 is unknown. Expression of the 65 kD neuroplastin (Np65) isoform derived by alternative splicing from the Nptn gene is restricted to brain neurons, whereas the 55 kD isoform (Np55) is present in most cell types but not in glia.

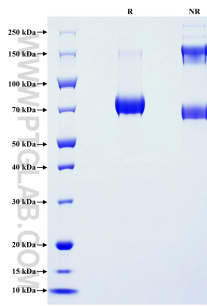
## References

- 1.Lin, Xiao et al. Brain structure & function vol. 226,5 (2021): 1533-1551.
- 2.Yagi, Takuya et al. iScience vol. 23,12 101810. 17 Nov. 2020.
- 3.Suzuki, Jun et al. Proceedings of the National Academy of Sciences of the United States of America vol. 113,34 (2016): 11753-11758.
- 4.Zeng, Wei-Zheng et al. The Journal of neuroscience : the official journal of the Society for Neuroscience vol. 36,2 (2016): 403-412.

## Synonyms

Neuroplastin, GP55, GP65, np55, np65

## Selected Validation Data



Purity of Recombinant Human NPTN 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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