

For Research Use Only

Recombinant Human AGRN protein (rFc Tag)



Catalog Number: Eg5123

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Human AGRN protein Ala1260-Pro2045 (Accession# O00468-6) with a rabbit IgG Fc tag at the N-terminus.

GeneID:
375790

Accession:
O00468-6

Predicted Molecular Mass:
109.5 kDa

SDS-PAGE:
100-140 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ 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

Agrin, a large heparan sulfate proteoglycan, is expressed in neuronal, as well as nonneuronal tissues. Nerve-derived agrin has been demonstrated to play an essential role in development and maintenance of the neuromuscular junction. The agrin gene encodes a protein of more than 2000 amino acids with predicted molecular weight of 225 kDa but can display as 600 kDa protein due to extensive N-terminal glycosylation. Neurotrypsin cleaves the proteoglycan agrin at two homologous, highly conserved sites, liberating a middle 90-kDa and a C-terminal 22-kDa fragment from the membrane or ECM-bound N-terminal moiety of agrin.

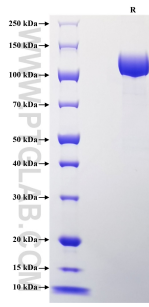
References

1. Bezakova, Gabriela, and Markus A Ruegg. Nature reviews. Molecular cell biology vol. 4,4 (2003): 295-308.
2. Kummer, Terrance T et al. Current opinion in neurobiology vol. 16,1 (2006): 74-82.
3. Stephan, Alexander et al. FASEB journal : official publication of the Federation of American Societies for Experim

Synonyms

Agrin, Agrin C-terminal 110 kDa subunit, Agrin C-terminal 22 kDa fragment, Agrin C-terminal 90 kDa fragment, Agrin N-terminal 110 kDa subunit

Selected Validation Data



Purity of Recombinant Human AGRN 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

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