

Recombinant rat Agrin protein

Catalog Number: ATGP3929

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

997-1753aa

UniProt No.

P25304

NCBI Accession No.

NP_786930

Alternative Names

AGRN, Agrin N-terminal 110 kDa subunit, Agrin C-terminal 110 kDa subunit, Agrin C-terminal 90 kDa fragment, C90, Agrin C-terminal 22 kDa fragment, C22, AGR

PRODUCT SPECIFICATION

Molecular Weight

82.5 kDa (766aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Agrin, also known as AGRN, is a large proteoglycan whose best-characterised role is in the development of the neuromuscular junction during embryogenesis. Agrin is named based on its involvement in the aggregation of acetylcholine receptors during synaptogenesis. The agrin gene is expressed in rat embryonic nervous system and

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muscle. This protein is concentrated at synapses, where it may play a role in development and regeneration. When secreted, agrin binds to several receptors on the surface of skeletal muscle. Recombinant Rat Agrin, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

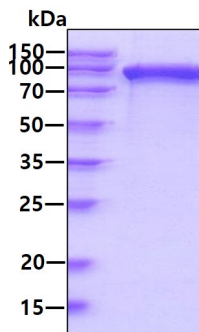
<ADP>SCYNSPL GCCSDGKTPTS LDSEGSNCPA TKAFQGVLEL EGVEGQELFY TPEMADPKSE LFGETARSIE STLDDLFNRNS DVKKDFWSVR LRELPGKLV RAIVDVHFD P TTAFAQSDVG QALLRQIQVS RPWALAVRRP LQEHVRFDF DWFPTFFTGA ATGTTAAMAT ARATTVSRP ASSVTPRVYP SHTSRPVGRT TAPPTTRRPP TTATNMDRPR TPGHQQPSKS CDSQPCLHGG TCQDQDSGKG FTCSCTAGRG GSVCEKVQPP SMPAFKGHSF LAFPTLRAYH TRLALEFRA LETEGLLLYN GNARGKDFLA LALLDGRVQF RFDTGSGPAV LTSLVPVEPG RWHRLERSRH WRQGTLSVDG ETPVVGESPS GTDGLNLDTN LYVGGIPEEQ VAMVLDRTSV GVGLKGCIRM LDINNQLEL SDWQRAAVQS SGVGECGDHP CLPNPCHGGA LCQALEAGMF LCQCPPGRFG PTCADKSPC QPNPCHGAAP CRVLSSGGAK CECPLGRSGT FCQTVLETAG SRPFLADFNG FSYLELKGLH TFERDLGEKM ALEMVFLARG PSGLLLYNGQ KTDGKGFVS LALHNRHLEF CYDLGKGA AV IRSKEPIALG TWVRVFLERN GRK GALQVGD GPRVLGESP K SRKVPHTMLN LKEPLYIGGA PDFSKLARGA AVSSGFSGVI QLVSLRGHQL LTQEHVLRVAV DVSPFADHPC TQALGNPCLN GGSCVPREAT YECLCPGGFS GLHCEKGLVE <HHHHHH>

General References

Neuron., et al,(1991) Rupp F. 6(5):811-823.
Cell., et al,(1996) Glass DJ. 17;85(4):513-523.

DATA

SDS-PAGE



3ug by SDS PAGE under reducing condition and visualized by coomassie blue stain