

Recombinant mouse RAPSN protein

Catalog Number: ATGP2405

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-412aa

UniProt No.

P12672

NCBI Accession No.

NP_033049

Alternative Names

43 kDa receptor-associated protein of the synapse, 43kDa, Nraps, Raps, rapsyn

PRODUCT SPECIFICATION

Molecular Weight

48.8 kDa (435aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.4M urea

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

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

43 kDa receptor-associated protein of the synapse, also known as RAPSN, is expressed in the postsynaptic membrane of skeletal muscle. RAPSN is required for the clustering of nicotinic acetylcholine receptors (nAChR). It self-associates through at least two of its seven tetra-tricopeptide repeats (TPRs). RAPSN interacts with the large intracellular domain of the nAChR a subunit through the hydrophobic surface of the coiled-coil domain. This protein modifies trafficking of AChR within the cell. Overexpression inhibits agrin-induced AChR clustering pathway. Recombinant human RAPSN protein, fused to His-tag at N-terminus, was expressed in E. coli.

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Amino acid Sequence

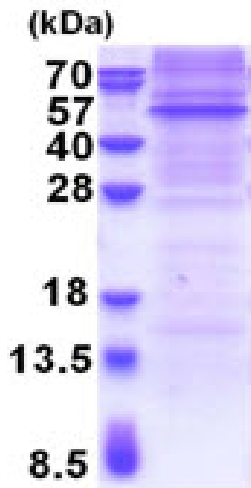
MGSSHHHHHH SSGLVPRGSH MGSMGQDQTK QQIEKGLQLY QSNQTEKALQ VWMKVLEKGS DLVGRFRVLG
CLVTAHSEMG RYKEMLKFAV VQIDTARGLE DADFLLESYL NLARSNEKLC EFHKTISYCK TCLGLPGTRA GAQLGGQVSL
SMGNAFLGLS LFQKALESFE KALRYAHNND DTMLECRVCC SLGSFYAQVK DYEKALFFPC KAAELVNDYG KGWSLKYRAM
SQYHMAVAYR LLGHLGSAME CCEESMKIAL QHGDRPLQAL CLLCFADIHR SRGDLETAFP RYDSAMSIMT EIGNRLGQVH
VLLGVAKCWM ARKVQDKALD AIEKAQDLAE EVGNKLSQLK LHCLSESIYR SKGLQRELRT HVVRFHECVE ETELYCGLCG
ESIGERNRSL QALPCSHIFH LRCLQNNGTR SCPNCRSSM KPGFV

General References

Maimone M M., et al. (1999) Mol Cell Neurosci. 14:340-354.
Han H., et al. (1999) J Neurocytol. 28:763-775

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)