Recombinant Full Length Human RAPSN Protein, His-tagged

Cat. No. RAPSN-322H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RAPSN, 1-412aa, Mouse, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-412 a.a.
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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.4M Urea
Molecular Mass	48.8 kDa (435aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMGQDQTK QQIEKGLQLY QSNQTEKALQ VWMKVLEKGS DLVGRFRVLG CLVTAHSEMG RYKEMLKFAV VQIDTARGLE DADFLLESYL NLARSNEKLC EFHKTISYCK TCLGLPGTRA GAQLGGQVSL SMGNAFLGLS LFQKALESFE KALRYAHNND DTMLECRVCC SLGSFYAQVK

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	DYEKALFFPC KAAELVNDYG KGWSLKYRAM SQYHMAVAYR LLGHLGSAME CCEESMKIAL QHGDRPLQAL CLLCFADIHR SRGDLETAFP RYDSAMSIMT EIGNRLGQVH VLLGVAKCWM ARKVQDKALD AIEKAQDLAE EVGNKLSQLK LHCLSESIYR SKGLQRELRT HVVRFHECVE ETELYCGLCG ESIGERNSRL QALPCSHIFH LRCLQNNGTR SCPNCRRSSM KPGFV
Purity	>85% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.5mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	RAPSN receptor-associated protein of the synapse [Homo sapiens]
Official Symbol	RAPSN
Synonyms	RAPSN; receptor-associated protein of the synapse; receptor associated protein of the synapse, 43kD; 43 kDa receptor-associated protein of the synapse; CMS1D; CMS1E; rapsyn; RNF205; RING finger protein 205; 43 kda postsynaptic protein; acetylcholine receptor-associated 43 kda protein; RAPSYN; MGC3597;
Gene ID	5913
mRNA Refseq	NM_005055
Protein Refseq	NP_005046
MIM	601592

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

UniProt ID	Q13702
Chromosome Location	11p11.2
Function	acetylcholine receptor binding; binding; metal ion binding; zinc ion binding;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA