
Product Data Sheet

Product Name: RAPSN Mouse
 Cat. No.: GP24337
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Receptor-Associated Protein Of The Synapse; 43 KDa Postsynaptic Protein; Acetylcholine Receptor-Associated 43 KDa Protein; RNF205; RING Finger Protein 205; rapsyn; Receptor-Associated Protein Of The Synapse; 43Kd; 43 KDa Receptor-Associated Protein Of The Synapse; RAPSYN; RAPsyn; CMS1D; CMS1E.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMGQDQTK QQIEKGLQLY QSNQTEKALQ VWMKVLEKGS DLVGRFRVLGCLVTAHSEMG RYKEMLKFAV VQIDTARGLE DADFLLESYL NLARSNEKLC EFHKTISYCK TCLGLPGTRAGAQLGGQVSL SMGNAFLGLS LFQKALESFE KALRYAHNND DTMLECRVCC SLGSFYAQVK DYEKALFFPC KAAELVNDYG KGWSLKYRAMS QYHMAVAYR LLGHLGSAME CCEESMKIAL QHGDRPLQAL CLLCFADIHR SRGDLETAFP RYDSAMSIMTEIGNRLGQVH VLLGVAKCWM ARKVQDKALD AIEKAQDLAE EVGNKLSQLK LHCLSESIYR SKGLQRELRT HVVRFHECVE ETELYCGLCG ESIGERN SRL QALPCSHIFHLRCLQNGTR SCPNCRSSM KPGFV		
Formulation	RAPSN protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

43kDa receptor-associated protein of the synapse (RAPSN), is expressed in the postsynaptic membrane of skeletal muscle. RAPSN is essential for the clustering of nicotinic acetylcholine receptors (nAChR). In addition RAPSN self-associates via at least two of its seven tetra-tricopeptide repeats (TPRs). RAPSN interacts with the large intracellular domain of the nAChR a subunit all the way through the hydrophobic surface of the coiled-coil domain. RAPSN modifies trafficking of AChR within the cell. Overexpression inhibits agrin-induced AChR clustering pathway. RAPSN also plays a role

Caution: Product has not been fully validated for medical applications. For research use only.

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inpostsynaptic congenital myasthenic syndromes.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze thaw cycles.

Background

RAPSN Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 435 amino acids (1-412aa) and having a molecular mass of 48.8kDa.

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