Datasheet for ABIN7555671

SYNGAP1 Protein (AA 1-1343) (His tag)

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Overview

Quantity:	1 mg
Target:	SYNGAP1
Protein Characteristics:	AA 1-1343
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SYNGAP1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SYNGAP1 Protein expressed in mammalian cells.
Sequence:	MSRSRASIHR GSIPAMSYAP FRDVRGPSMH RTQYVHSPYD RPGWNPRFCI ISGNQLLMLD EDEIHPLLIR DRRSESSRNK LLRRTVSVPV EGRPHGEHEY HLGRSRRKSV PGGKQYSMEG APAAPFRPSQ GFLSRRLKSS IKRTKSQPKL DRTSSFRQIL PRFRSADHDR ARLMQSFKES HSHESLLSPS SAAEALELNL DEDSIIKPVH SSILGQEFCF EVTTSSGTKC FACRSAAERD KWIENLQRAV KPNKDNSRRV DNVLKLWIIE ARELPPKKRY YCELCLDDML YARTTSKPRS ASGDTVFWGE HFEFNNLPAV RALRLHLYRD SDKKRKKDKA GYVGLVTVPV ATLAGRHFTE QWYPVTLPTG SGGSGGMGSG GGGGSGGGSG GKGKGGCPAV RLKARYQTMS ILPMELYKEF AEYVTNHYRM LCAVLEPALN VKGKEEVASA LVHILQSTGK AKDFLSDMAM SEVDRFMERE HLIFRENTLA TKAIEEYMRL IGQKYLKDAI GEFIRALYES EENCEVDPIK CTASSLAEHQ ANLRMCCELA LCKVVNSHCV FPRELKEVFA SWRLRCAERG REDIADRLIS ASLFLRFLCP AIMSPSLFGL MQEYPDEQTS RTLTLIAKVI QNLANFSKFT SKEDFLGFMN EFLELEWGSM QQFLYEISNL DTLTNSSSFE GYIDLGRELS TLHALLWEVL PQLSKEALLK LGPLPRLLND

	ISTALRNPNI QRQPSRQSER PRPQPVVLRG PSAEMQGYMM RDLNSSIDLQ SFMARGLNSS MDMARLPSPT KEKPPPPPPG GGKDLFYVSR PPLARSSPAY CTSSSDITEP EQKMLSVNKS VSMLDLQGDG PGGRLNSSSV SNLAAVGDLL HSSQASLTAA LGLRPAPAGR LSQGSGSSIT AAGMRLSQMG VTTDGVPAQQ LRIPLSFQNP LFHMAADGPG PPGGHGGGGG HGPPSSHHHH HHHHHHRGGE PPGDTFAPFH GYSKSEDLSS GVPKPPAASI LHSHSYSDEF GPSGTDFTRR QLSLQDNLQH MLSPPQITIG PQRPAPSGPG GGSGGGSGGG GGGQPPPLQR GKSQQLTVSA AQKPRPSSGN LLQSPEPSYG PARPRQQSLS KEGSIGGSGG SGGGGGGGLK PSITKQHSQT PSTLNPTMPA SERTVAWVSN MPHLSADIES AHIEREEYKL KEYSKSMDES RLDRVKEYEE EIHSLKERLH MSNRKLEEYE RRLLSQEEQT SKILMQYQAR LEQSEKRLRQ QQAEKDSQIK SIIGRLMLVE EELRRDHPAM AEPLPEPKKR LLDAQERQLP PLGPTNPRVT LAPPWNGLAP PAPPPPPRLQ ITENGEFRNT ADH **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	SYNGAP1
Alternative Name:	SYNGAP1 (SYNGAP1 Products)
Background:	Ras/Rap GTPase-activating protein SynGAP (Neuronal RasGAP) (Synaptic Ras GTPase-activating protein 1) (Synaptic Ras-GAP 1),FUNCTION: Major constituent of the PSD essential for postsynaptic signaling. Inhibitory regulator of the Ras-cAMP pathway. Member of the NMDAR signaling complex in excitatory synapses, it may play a role in NMDAR-dependent control of AMPAR potentiation, AMPAR membrane trafficking and synaptic plasticity. Regulates AMPAR-mediated miniature excitatory postsynaptic currents. Exhibits dual GTPase-activating specificity for Ras and Rap. May be involved in certain forms of brain injury, leading to long-term learning and memory deficits (By similarity). {ECO:0000250}.
Molecular Weight:	148.3 kDa
UniProt:	Q96PV0
Pathways:	Regulation of long-term Neuronal Synaptic Plasticity

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

