Datasheet for ABIN3114614

GRIN2B Protein (AA 27-1484) (rho-1D4 tag)

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Overview

Quantity:	1 mg
Target:	GRIN2B
Protein Characteristics:	AA 27-1484
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GRIN2B protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	RSQKSPPSIG IAVILVGTSD EVAIKDAHEK DDFHHLSVVP RVELVAMNET DPKSIITRIC DLMSDRKIQG VVFADDTDQE AIAQILDFIS AQTLTPILGI HGGSSMIMAD KDESSMFFQF GPSIEQQASV MLNIMEEYDW YIFSIVTTYF PGYQDFVNKI RSTIENSFVG WELEEVLLLD MSLDDGDSKI QNQLKKLQSP IILLYCTKEE ATYIFEVANS VGLTGYGYTW IVPSLVAGDT DTVPAEFPTG LISVSYDEWD YGLPARVRDG IAIITTAASD MLSEHSFIPE PKSSCYNTHE KRIYQSNMLN RYLINVTFEG RNLSFSEDGY QMHPKLVIIL LNKERKWERV GKWKDKSLQM KYYVWPRMCP ETEEQEDDHL SIVTLEEAPF VIVESVDPLS GTCMRNTVPC QKRIVTENKT DEEPGYIKKC CKGFCIDILK KISKSVKFTY DLYLVTNGKH GKKINGTWNG MIGEVVMKRA YMAVGSLTIN EERSEVVDFS VPFIETGISV MVSRSNGTVS PSAFLEPFSA DVWVMMFVML LIVSAVAVFV FEYFSPVGYN RCLADGREPG GPSFTIGKAI WLLWGLVFNN SVPVQNPKGT TSKIMVSVWA FFAVIFLASY TANLAAFMIQ EEYVDQVSGL SDKKFQRPND FSPPFRFGTV PNGSTERNIR NNYAEMHAYM GKFNQRGVDD ALLSLKTGKL DAFIYDAAVL NYMAGRDEGC

KLVTIGSGKV FASTGYGIAI QKDSGWKRQV DLAILQLFGD GEMEELEALW LTGICHNEKN EVMSSQLDID NMAGVFYMLG AAMALSLITF ICEHLFYWQF RHCFMGVCSG KPGMVFSISR GIYSCIHGVA IEERQSVMNS PTATMNNTHS NILRLLRTAK NMANLSGVNG SPQSALDFIR RESSVYDISE HRRSFTHSDC KSYNNPPCEE NLFSDYISEV ERTFGNLQLK DSNVYQDHYH HHHRPHSIGS ASSIDGLYDC DNPPFTTQSR SISKKPLDIG LPSSKHSQLS DLYGKFSFKS DRYSGHDDLI RSDVSDISTH TVTYGNIEGN AAKRRKQQYK DSLKKRPASA KSRREFDEIE LAYRRRPPRS PDHKRYFRDK EGLRDFYLDQ FRTKENSPHW EHVDLTDIYK ERSDDFKRDS VSGGGPCTNR SHIKHGTGDK HGVVSGVPAP WEKNLTNVEW EDRSGGNFCR SCPSKLHNYS TTVTGQNSGR QACIRCEACK KAGNLYDISE DNSLQELDQP AAPVAVTSNA STTKYPQSPT NSKAQKKNRN KLRRQHSYDT FVDLQKEEAA LAPRSVSLKD KGRFMDGSPY AHMFEMSAGE STFANNKSSV PTAGHHHHNN PGGGYMLSKS LYPDRVTQNP FIPTFGDDQC LLHGSKSYFF RQPTVAGASK ARPDFRALVT NKPVVSALHG AVPARFQKDI CIGNQSNPCV PNNKNPRAFN GSSNGHVYEK LSSIESDV

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human GRIN2B Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded protein.

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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use

Product Details

	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells: 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot. 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot. 3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade

Target Details

Target:	GRIN2B
Alternative Name:	GRIN2B (GRIN2B Products)
Background:	NMDA receptor subtype of glutamate-gated ion channels with high calcium permeability and voltage-dependent sensitivity to magnesium. Mediated by glycine. In concert with DAPK1 at extrasynaptic sites, acts as a central mediator for stroke damage. Its phosphorylation at Ser-1303 by DAPK1 enhances synaptic NMDA receptor channel activity inducing injurious Ca2+ influx through them, resulting in an irreversible neuronal death (By similarity). {ECO:0000250}.
Molecular Weight:	164.7 kDa Including tag.
UniProt:	Q13224
Pathways:	Response to Growth Hormone Stimulus, Synaptic Membrane, Feeding Behaviour, Regulation of long-term Neuronal Synaptic Plasticity

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee

Application Details

	though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)