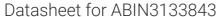
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NMDAR2A Protein (AA 23-1464) (rho-1D4 tag)





Overview

Quantity:	1 mg
Target:	NMDAR2A (GRIN2A)
Protein Characteristics:	AA 23-1464
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NMDAR2A protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

Product Details

Sequence:

QNAAAEKGTP ALNIAVLLGH SHDVTERELR NLWGPEQATG LPLDVNVVAL LMNRTDPKSL ITHVCDLMSG ARIHGLVFGD DTDQEAVAQM LDFISSQTFI PILGIHGGAS MIMADKDPTS TFFQFGASIQ QQATVMLKIM QDYDWHVFSL VTTIFPGYRD FISFIKTTVD NSFVGWDMQN VITLDTSFED AKTQVQLKKI HSSVILLYCS KDEAVLILSE ARSLGLTGYD FFWIVPSLVS GNTELIPKEF PSGLISVSYD DWDYSLEARV RDGLGILTTA ASSMLEKFSY IPEAKASCYG QTEKPETPLH TLHQFMVNVT WDGKDLSFTE EGYQVHPRLV VIVLNKDREW EKVGKWENQT LSLRHAVWPR YKSFSDCEPD DNHLSIVTLE EAPFVIVEDI DPLTETCVRN TVPCRKFVKI NNSTNEGMNV KKCCKGFCID ILKKLSRTVK FTYDLYLVTN GKHGKKVNNV WNGMIGEVVY QRAVMAVGSL TINEERSEVV DFSVPFVETG ISVMVSRSNG TVSPSAFLEP FSASVWVMMF VMLLIVSAIA VFVFEYFSPV GYNRNLAKGK APHGPSFTIG KAIWLLWGLV FNNSVPVQNP KGTTSKIMVS VWAFFAVIFL ASYTANLAAF MIQEEFVDQV TGLSDKKFQR PHDYSPPFRF GTVPNGSTER NIRNNYPYMH QYMTKFNQRG VEDALVSLKT GKLDAFIYDA AVLNYKAGRD

EGCKLVTIGS GYIFATTGYG IALQKGSPWK RQIDLALLQF VGDGEMEELE TLWLTGICHN
EKNEVMSSQL DIDNMAGVFY MLAAAMALSL ITFIWEHLFY WKLRFCFTGV CSDRPGLLFS
ISRGIYSCIH GVHIEEKKKS PDFNLTGSQS NMLKLLRSAK NISNMSNMNS SRMDSPKRAA
DFIQRGSLIV DMVSDKGNLI YSDNRSFQGK DSIFGENMNE LQTFVANRHK DSLSNYVFQG
QHPLTLNESN PNTVEVAVST ESKGNSRPRQ LWKKSMESLR QDSLNQNPVS QRDEKTAENR
THSLKSPRYL PEEVAHSDIS ETSSRATCHR EPDNNKNHKT KDNFKRSMAS KYPKDCSEVE
RTYVKTKASS PRDKIYTIDG EKEPSFHLDP PQFIENIVLP ENVDFPDTYQ DHNENFRKGD
STLPMNRNPL HNEDGLPNND QYKLYAKHFT LKDKGSPHSE GSDRYRQNST HCRSCLSNLP
TYSGHFTMRS PFKCDACLRM GNLYDIDEDQ MLQETGNPAT REEAYQQDWS QNNALQFQKN
KLKINRQHSY DNILDKPREI DLSRPSRSIS LKDRERLLEG NLYGSLFSVP SSKLLGNKSS
LFPQGLEDSK RSKSLLPDHT SDNPFLHTYG DDQRLVIGRC PSDPYKHSLP SQAVNDSYLR
SSLRSTASYC SRDSRGHSDV YISEHVMPYA ANKNNMYSTP RVLNSCSNRR VYKKMPSIES DV
Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Mouse Grin2a 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).

special request, please contact us.

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 the Expasy's protparam tool to determine the absorption coefficient of each protein.

Product Details

Purification:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect
Purification.	cells:
	Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
	The best performing detergent is used for solubilization and the proteins are purified via thei rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
	 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:	NMDAR2A (GRIN2A)
Alternative Name:	Grin2a (GRIN2A Products)
Background:	NMDA receptor subtype of glutamate-gated ion channels possesses high calcium permeability and voltage-dependent sensitivity to magnesium. Activation requires binding of agonist to both types of subunits.
Molecular Weight:	164.1 kDa Including tag.
UniProt:	P35436
Pathways:	Synaptic Membrane, 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 though.
Comment:	Protein has not been tested for activity yet. 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

Application Details

	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)

Images

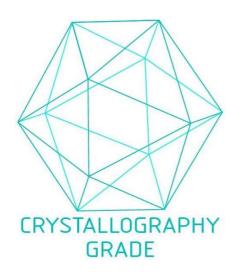


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process