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Datasheet for ABIN3081220 GRIA4 Protein (AA 639-813) (His tag)

Image



Overview

Quantity:	1 mg
Target:	GRIA4
Protein Characteristics:	AA 639-813
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GRIA4 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)
Product Details	
Sequence:	TANLAAFLTV ERMVSPIESA EDLAKQTEIA YGTLDSGSTK EFFRRSKIAV YEKMWTYMRS
	AEPSVFTRTT AEGVARVRKS KGKFAFLLES TMNEYIEQRK PCDTMKVGGN LDSKGYGVAT
	PKGSSLRTPV NLAVLKLSEA GVLDKLKNKW WYDKGECGPK DSGSKDKTSA LSLSN
	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 GRIA4 Protein (raised in E. Coli) 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.
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	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.
Purification:	Two step purification of proteins expressed in bacterial culture:
	1. In a first purification step, the protein is purified from the cleared cell lysate using three
	different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate
	fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step
	through size exclusion chromatography. 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:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Grade:	Crystallography grade
Target Details	
Target:	GRIA4
Alternative Name:	GRIA4 (GRIA4 Products)
Background:	Receptor for glutamate that functions as ligand-gated ion channel in the central nervous
	system and plays an important role in excitatory synaptic transmission. L-glutamate acts as an
	excitatory neurotransmitter at many synapses in the central nervous system. Binding of the

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Target Details

	of the cation channel, and thereby converts the chemical signal to an electrical impulse. The
	receptor then desensitizes rapidly and enters a transient inactive state, characterized by the
	presence of bound agonist. In the presence of CACNG4 or CACNG7 or CACNG8, shows
	resensitization which is characterized by a delayed accumulation of current flux upon continued
	application of glutamate. {ECO:0000269 PubMed:21172611}.
Molecular Weight:	20.3 kDa Including tag.
UniProt:	P48058
Pathways:	PI3K-Akt Signaling
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
	guarantee 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)



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

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