antibodies

Datasheet for ABIN3092794 GLRA1 Protein (AA 29-250) (His tag)

Image



Overview

Quantity:	1 mg	
Target:	GLRA1	
Protein Characteristics:	AA 29-250	
Origin:	Human	
Source:	Insect Cells	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This GLRA1 protein is labelled with His tag.	
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)	
Product Details		
Sequence:	ARSAPKPMSP SDFLDKLMGR TSGYDARIRP NFKGPPVNVS CNIFINSFGS IAETTMDYRV	
	NIFLRQQWND PRLAYNEYPD DSLDLDPSML DSIWKPDLFF ANEKGAHFHE ITTDNKLLRI	
	SRNGNVLYSI RITLTLACPM DLKNFPMDVQ TCIMQLESFG YTMNDLIFEW QEQGAVQVAD	
	GLTLPQFILK EEKDLRYCTK HYNTGKFTCI EARFHLERQM GY	

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 GLRA1 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.

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	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.	
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:	
	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:	Protein is endotoxin free.	
Grade:	Crystallography grade	
Target Details		
Target:	GLRA1	
Alternative Name:	GLRA1 (GLRA1 Products)	
Background:	Glycine receptors are ligand-gated chloride channels (PubMed:23994010, PubMed:25730860).	
	Channel opening is triggered by extracellular glycine (PubMed:2155780, PubMed:7920629,	

PubMed:14551753, PubMed:16144831, PubMed:22715885, PubMed:22973015,

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	PubMed:25973519, PubMed:9009272). Channel opening is also triggered by taurine and beta-
	alanine (PubMed:16144831, PubMed:9009272). Channel characteristics depend on the subunit
	composition, heteropentameric channels are activated by lower glycine levels and display faster
	desensitization (PubMed:14551753). Plays an important role in the down-regulation of neuronal
	excitability (PubMed:8298642, PubMed:9009272). Contributes to the generation of inhibitory
	postsynaptic currents (PubMed:25445488). Channel activity is potentiated by ethanol
	(PubMed:25973519). Potentiation of channel activity by intoxicating levels ot ethanol contribute
	to the sedative effects of ethanol (By similarity). {ECO:0000250 UniProtKB:Q64018,
	ECO:0000269 PubMed:14551753, ECO:0000269 PubMed:16144831,
	EC0:0000269 PubMed:2155780, EC0:0000269 PubMed:22715885,
	ECO:0000269 PubMed:22973015, ECO:0000269 PubMed:23994010,
	ECO:0000269 PubMed:25445488, ECO:0000269 PubMed:25730860,
	ECO:0000269 PubMed:25973519, ECO:0000269 PubMed:7920629,
	ECO:0000269 PubMed:7925268, ECO:0000269 PubMed:9009272,
	EC0:0000305 PubMed:8298642}.
Molecular Weight:	26.6 kDa Including tag.
UniProt:	P23415
Pathways:	Synaptic Membrane
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:	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.

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Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

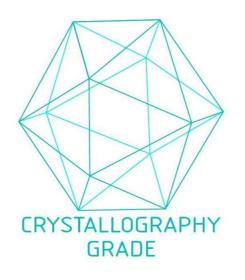


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process