antibodies

# Datasheet for ABIN3088213 CHRNA9 Protein (AA 324-457) (His tag)



Image

Overview	
Quantity:	1 mg
Target:	CHRNA9
Protein Characteristics:	AA 324-457
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CHRNA9 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

#### Product Details

Sequence:	HFCGAEARPV PHWARVVILK YMSRVLFVYD VGESCLSPHH SRERDHLTKV YSKLPESNLK
	AARNKDLSRK KDMNKRLKND LGCQGKNPQE AESYCAQYKV LTRNIEYIAK CLKDHKATNS
	KGSEWKKVAK VIDR
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Human CHRNA9 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	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

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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 baculovirus infected SF9 insect cells:
	<ol> <li>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.</li> </ol>
	<ol> <li>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.</li> </ol>
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:	CHRNA9
Alternative Name:	CHRNA9 (CHRNA9 Products)
Background:	lonotropic receptor with a probable role in the modulation of auditory stimuli. Agonist binding
	induces a conformation change that leads to the opening of an ion-conducting channel across
	the plasma membrane (PubMed:11752216, PubMed:25282151). The channel is permeable to a

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### Target Details

	current which hyperpolarizes the cell membrane (PubMed:11752216, PubMed:25282151). In
	the ear, this may lead to a reduction in basilar membrane motion, altering the activity of
	auditory nerve fibers and reducing the range of dynamic hearing. This may protect against
	acoustic trauma. May also regulate keratinocyte adhesion (PubMed:11021840).
	{EC0:0000269 PubMed:11021840, EC0:0000269 PubMed:11752216,
	ECO:0000269 PubMed:25282151, ECO:0000305}.
Molecular Weight:	16.5 kDa Including tag.
UniProt:	Q9UGM1
Pathways:	Sensory Perception of Sound

# 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)

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

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