Datasheet for ABIN3088543

CHRNE Protein (AA 21-239) (His tag)

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Overview

Quantity:	1 mg
Target:	CHRNE
Protein Characteristics:	AA 21-239
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CHRNE protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MHHHHHH KNEELRLYHH LFNNYDPGSR PVREPEDTVT ISLKVTLTNL ISLNEKEETL TTSVWIGIDW QDYRLNYSKD DFGGIETLRV PSELVWLPEI VLENNIDGQF GVAYDANVLV YEGGSVTWLP PAIYRSVCAV EVTYFPFDWQ NCSLIFRSQT YNAEEVEFTF AVDNDGKTIN KIDIDTEAYT ENGEWAIDFC PGVIRRHHGG ATDGPGETDV IYSLIIRRK **Sequence includes N-terminal His-tag**
Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts. • Human PLP1 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). 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.

Product Details

	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:	The protein is purified from the cleared cell lysate using His-tag capture materials. Eluate fractions are analyzed by SDS-PAGE. Protein containing fractions are subjected to a 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:	CHRNE
Alternative Name:	CHRNE (CHRNE Products)
Background:	After binding acetylcholine, the AChR responds by an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane.
Molecular Weight:	26.0 kDa Including tag
UniProt:	Q04844

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

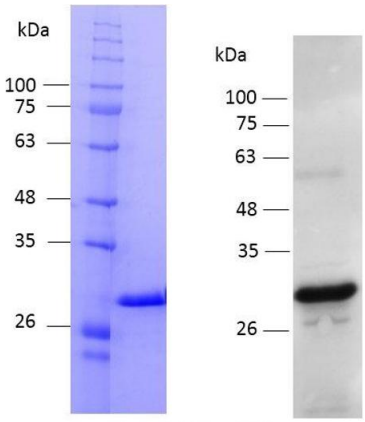
Format:	Liquid
Buffer:	In solution (30 mM Hepes, pH 8.0, 100 mM NaCl, Laurylsarcosine)
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Publications

Product cited in:	Chernyavsky, Amber, Agnoletti, Wang, Grando: "Synergy among non-desmoglein antibodies contributes to the immunopathology of desmoglein antibody-negative pemphigus vulgaris." in: **The Journal of biological chemistry**, Vol. 294, Issue 12, pp. 4520-4528, (2019) (PubMed).

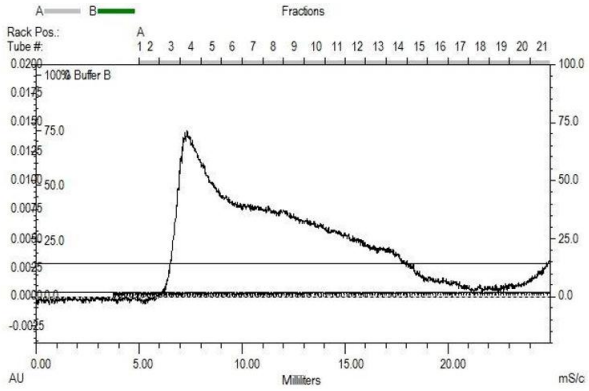
Images

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



CHRNE (AA 21- 239),
Fraction 6 - 10

Image 2.



CHRNE (AA 21- 239), gel filtration
Superdex 200; fractions 6 - 10

Image 3.