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Reticulon 3 Protein (RTN3) (AA 2-863) (His tag)



Publication



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Overview

Quantity:	1 mg
Target:	Reticulon 3 (RTN3)
Protein Characteristics:	AA 2-863
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Reticulon 3 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:

AEPSAATQSH SISSSSFGAE PSAPGGGGSP GACPALGTKS CSSSCADSFV SSSSQPVSL
FSTSQEGLSS LCSDEPSSEI MTSSFLSSSE IHNTGLTILH GEKSHVLGSQ PILAKEGKDH
LDLLDMKKME KPQGTSNNVS DSSVSLAAGV HCDRPSIPAS FPEHPAFLSK KIGQVEEQID
KETKNPNGVS SREAKTALDA DDRFTLLTAQ KPPTEYSKVE GIYTYSLSPS KVSGDDVIEK
DSPESPFEVI IDKAAFDKEF KDSYKESTDD FGSWSVHTDK ESSEDISETN DKLFPLRNKE
AGRYPMSALL SRQFSHTNAA LEEVSRCVND MHNFTNEILT WDLVPQVKQQ TDKSSDCITK
TTGLDMSEYN SEIPVVNLKT STHQKTPVCS IDGSTPITKS TGDWAEASLQ QENAITGKPV
PDSLNSTKEF SIKGVQGNMQ KQDDTLAELP GSPPEKCDSL GSGVATVKVV LPDDHLKDEM
DWQSSALGEI TEADSSGESD DTVIEDITAD TSFENNKIQA EKPVSIPSAV VKTGEREIKE
IPSCEREEKT SKNFEELVSD SELHQDQPDI LGRSPASEAA CSKVPDTNVS LEDVSEVAPE
KPITTENPKL PSTVSPNVFN ETEFSLNVTT SAYLESLHGK NVKHIDDSSP EDLIAAFTET
RDKGIVDSER NAFKAISEKM TDFKTTPPVE VLHENESGGS EIKDIGSKYS EQSKETNGSE

PLGVFPTQGT PVASLDLEQE QLTIKALKEL GERQVEKSTS AQRDAELPSE EVLKQTFTFA
PESWPQRSYD ILERNVKNGS DLGISQKPIT IRETTRVDAV SSLSKTELVK KHVLARLLTD
FSVHDLIFWR DVKKTGFVFG TT

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 RTN3 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.

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 protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

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.
- 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

Product Details	
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade
Target Details	
Target:	Reticulon 3 (RTN3)
Alternative Name:	RTN3 (RTN3 Products)
Background:	May be involved in membrane trafficking in the early secretory pathway. Inhibits BACE1 activity and amyloid precursor protein processing. May induce caspase-8 cascade and apoptosis. May favor BCL2 translocation to the mitochondria upon endoplasmic reticulum stress. In case of enteroviruses infection, RTN3 may be involved in the viral replication or pathogenesis. Induces the formation of endoplasmic reticulum tubules (PubMed:25612671). {ECO:0000269 PubMed:15286784, ECO:0000269 PubMed:16054885, ECO:0000269 PubMed:17031492, ECO:0000269 PubMed:17191123, ECO:0000269 PubMed:25612671}.
Molecular Weight:	94.4 kDa Including tag.
UniProt:	095197
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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Avoid repeated freeze-thaw cycles.

Handling Advice:

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Publications

Product cited in:

Franjic, Skarica, Ma, Arellano, Tebbenkamp, Choi, Xu, Li, Morozov, Andrijevic, Vrselja, Spajic, Santpere, Li, Zhang, Liu, Spurrier, Zhang, Gudelj, Rapan, Takahashi, Huttner, Fan, Strittmatter, Sousa et al.: "Transcriptomic taxonomy and neurogenic trajectories of adult human, macaque, and pig hippocampal and entorhinal cells. ..." in: **Neuron**, Vol. 110, Issue 3, pp. 452-469.e14, (2022) (PubMed).