

Datasheet for ABIN3115426 GJC2 Protein (AA 1-439) (rho-1D4 tag)



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4 Images

Overview

Quantity:	1 mg
Target:	GJC2
Protein Characteristics:	AA 1-439
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GJC2 protein is labelled with rho-1D4 tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	<p>MTNMSWSFLT RLLEIHNHS TFVGKWLTV LVVFRIVLTA VGGEAIYSDE QAKFTCNTRQ PGCDNVCYDA FAPLSHVRFW VFQIVISTP SVMYLGAVH RLARASEQER RRALRRRPGP RRAPRAHLPP PHAGWPEPAD LGEEEPMLGL GEEEEEEETG AAEGAGEEAE EAGAEAEACTK AVGADGKAAG TPGPTGQHDG RRRIQREGLM RYVVAQLVAR AAFEVAFLVG QYLLYGFEVR PFFPCSRQPC PHVWDCFVSR PTEKTVFLLV MYVVSCLCLL LNLCEMAHLG LGSAQDAVRG RRGPPASAPA PAPRPPPCAF PAAAAGLACP PDYSLVRAA ERARAHQDNL ANLALQALRD GAAAGDRDRD SSPCVGLPAA SRGPPRAGAP ASRTGSATSA GTVGEQGRPG THERPGAKPR AGSEKGSASS RDGKTTVWIGSSGTETSQVAPA</p> <p>C-terminal Rho-tag</p>
Characteristics:	<ul style="list-style-type: none"> Made in Germany - from design to production - by highly experienced protein experts. Human GJC2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.

Product Details

- 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 receipt 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:	The protein is purified from the cleared cell lysate using Rho1D4 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:	Protein is endotoxin-free.
Grade:	Crystallography grade

Target Details

Target:	GJC2
Alternative Name:	GJC2 (GJC2 Products)
Background:	One gap junction consists of a cluster of closely packed pairs of transmembrane channels, the connexons, through which materials of low MW diffuse from one cell to a neighboring cell. May

Target Details

play a role in myelination in central and peripheral nervous systems.
{ECO:0000269|PubMed:15192806}.

Molecular Weight: 48.2 kDa Including tag.

UniProt: [Q5T442](#)

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.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: in solution (20 mM Hepes, pH 7.4, 100 mM NaCl, 0,1 % LDAO)

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

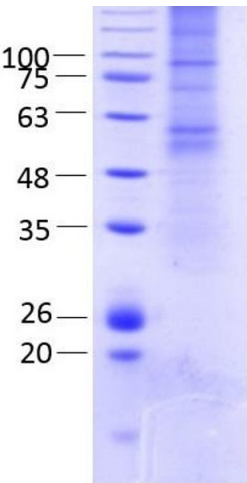
Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)

Images

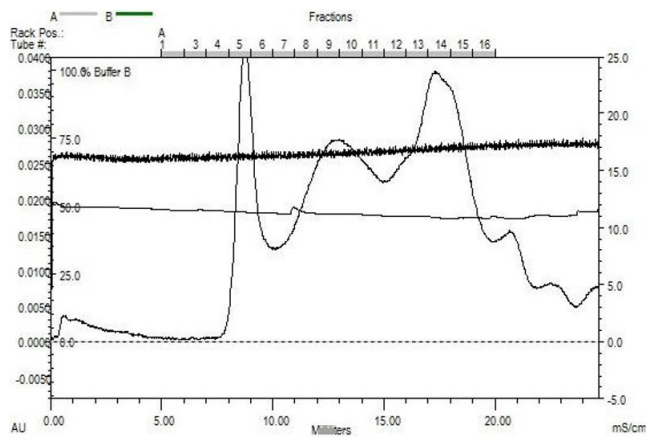


Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process



SDS-PAGE

Image 2. Gap junction gamma-2 protein (GJC2) (AA 1-439), fraction 9 - 10



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. Gap junction gamma-2 protein (GJC2) (AA 1-439), gel filtration, Superose 6 fraction 9 - 10

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3115426.