

Datasheet for ABIN3118806

Solute Carrier Family 17 (Vesicular Glutamate Transporter), Member 6 (SLC17A6) (AA 1-582) protein (rho-1D4 tag)



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3 Images

Overview

Quantity:	1 mg
Target:	Solute Carrier Family 17 (Vesicular Glutamate Transporter), Member 6 (SLC17A6)
Protein Characteristics:	AA 1-582
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	rho-1D4 tag
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	<p>MESVKQRILA PGKEGLKNFA GKSLGQIYRV LEKKQDTGET IELTEDGKPL EVERKAPLC</p> <p>DCTCFGLPRR YIIAIMSGLG FCISFGIRC� LGVAIVDMVN NSTIHRGGKV IKEKAKFNWD</p> <p>PETVGMIHGS FFWGYIITQI PGGYIASRLA ANRVFGAAIL LTSTLNMLIP SAARVHYGCV</p> <p>IFVRILQGLV EGVTPACHG IWSKWAPPLE RSRLATTSFC GSYAGAVIAM PLAGILVQYT</p> <p>GWSSVFYVYG SFGMVWYMFV LLVSYESPAK HPTITDEERR YIEESIGESA NLLGAMEKFK</p> <p>TPWRKFFTSM PVYAIIVANF CRSWTFYLLL ISQPAYFEEV FGFEISKVGM LSAVPHLVMT</p> <p>IIVPIGGQIA DFLRSKQILS TTTVRKIMNC GGFGMEATLL LVVGYSHTRG VAISFLVLAV</p> <p>GFSGFAISGF NVNHLDIAPR YASILMGISN GVGTLSGMVC PIIVGAMTKN KSREEWQYVF</p> <p>LIAALVHYGG VIFYAIFASG EKQPWADPEE TSEKCGFIH EDELDEETGD ITQNYINYGT</p> <p>TKSYGATTQA NGGWPSGWEK KEEFVQGEVQ DSHSYKDRVD YS GSSGTETSQVAPA</p> <p>C-terminal Rho1D4-tag</p>
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Product Details

- Characteristics:
- Made in Germany - from design to production - by highly experienced protein experts.
 - Human SLC17A6 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.

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:	<p>The protein is purified from the cleared cell lysate using Rho-tag capture materials. Eluate fractions are analyzed by SDS-PAGE.</p> <p>Protein containing fractions are subjected to a second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</p>
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:	Solute Carrier Family 17 (Vesicular Glutamate Transporter), Member 6 (SLC17A6)
Alternative Name:	SLC17A6 (SLC17A6 Products)

Target Details

Background:	Mediates the uptake of glutamate into synaptic vesicles at presynaptic nerve terminals of excitatory neural cells. May also mediate the transport of inorganic phosphate. {ECO:0000269 PubMed:10820226, ECO:0000269 PubMed:11698620}.
Molecular Weight:	65.6 kDa Including tag.
UniProt:	Q9P2U8

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

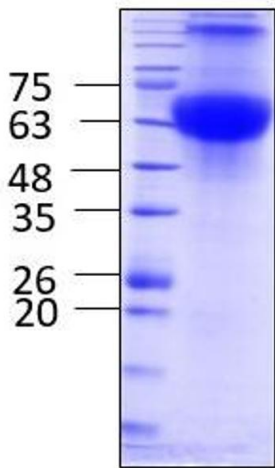
Handling

Format:	Liquid
Buffer:	in solution (20 mM Hepes, 10% Glycerol pH 7.2)
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

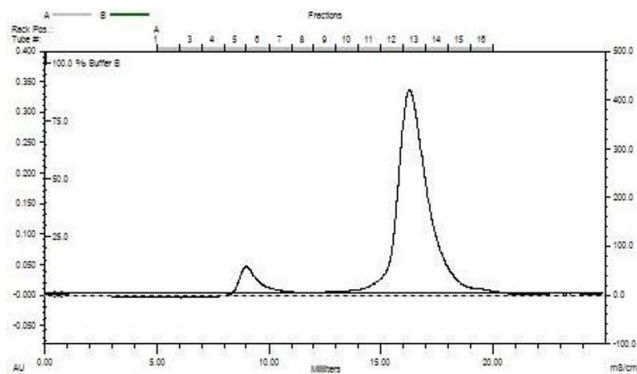


Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process



SDS-PAGE

Image 2. Solute Carner Family 17 (Vesicular Glutamate Transporter), (AA 1- 582), gel filtration, fraction 11 - 12



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. Solute Carner Family 17 (Vesicular Glutamate Transporter), (AA 1- 582), gel filtration Superose 6, fraction 11 - 12