

Datasheet for ABIN3084600

NTSR1 Protein (AA 1-418) (rho-1D4 tag,His tag)



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3 Images

Overview

Quantity:	0.5 mg
Target:	NTSR1
Protein Characteristics:	AA 1-418
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NTSR1 protein is labelled with rho-1D4 tag,His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

Product Details

Sequence:	<p>HHHHHHRLNSSAPGT PGTPAADPFQ RAQAGLEEAL LAPGFGNASG NASERVLAAP SSEL DVNTDI</p> <p>YSKVLVTAVY LALFVVGTVG NTVTAFTLAR KKSLSLQSLQST VHYHLGSLAL SDLLTLLAM</p> <p>PVELYNFIWV HHPWAFGDAG CRGYYFLRDA CTYATALNVA SLSVERYLAI CHPFKAKTLM</p> <p>SRSRTKKFIS AIWLASALLA VPMLFTMGEQ NRSADGQHAG GLVCTPTIHT ATVKVVIQVN</p> <p>TFMSFIFPMV VISVLNTIIA NKLTVMVRQA AEQGQVCTVG GEHSTFSMAI EPGRVQALRH</p> <p>GVRVLRAVVI AFVVCWLPYH VRRLMFCYIS DEQWTPFLYD FYHYFYMVTN ALFYVSSTIN</p> <p>PILYNLVSAN FRHIFLATLA CLCPVWRRRR KRPAFSRKAD SVSSNHTLSS</p> <p>NATRETLYGSSGTETSQVAPA</p>
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Sequence including N-terminal His-tag and C-terminal Rho1D4 tag.

Characteristics:	<ul style="list-style-type: none"> Made in Germany - from design to production - by highly experienced protein experts. Human NTSR1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
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Product Details

- 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.

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:	NTSR1
Alternative Name:	NTSR1 (NTSR1 Products)
Background:	G-protein coupled receptor for the tridecapeptide neurotensin (NTS) (PubMed:8381365, PubMed:21725197, PubMed:23140271). Signaling is effected via G proteins that activate a phosphatidylinositol-calcium second messenger system. Signaling leads to the activation of downstream MAP kinases and protects cells against apoptosis (PubMed:21725197). {ECO:0000269 PubMed:21725197, ECO:0000269 PubMed:23140271, ECO:0000269 PubMed:8381365}.
Molecular Weight:	48.1 kDa Including tag.
UniProt:	P30989

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.
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Application Details

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

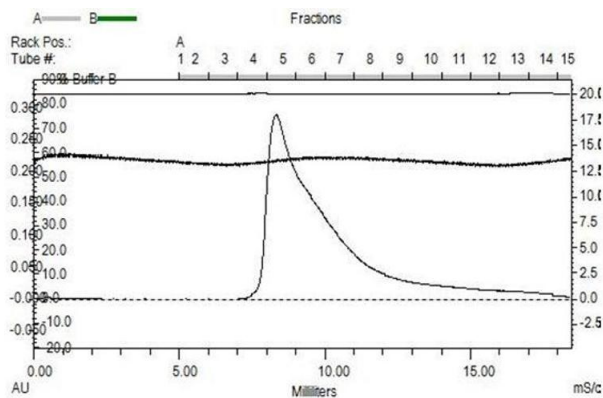
Handling

Format:	Liquid
Buffer:	In solution (50 mM Hepes, pH8.0; 200 mM NaCl; 10% Glycerol; 0.1% n-Decyl-beta-maltoside; 0.01% cholesterolhemisuccinate; 0.01% CHAPSO)
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

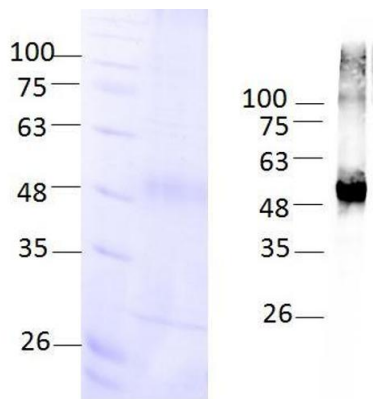
Images



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



Neurotensin Receptor 1 (NTSR1) (AA 1-418)
gel filtration Superose 6 column, fraction 7,8



Neurotensin Receptor 1 (NTSR1) (AA 1-418)
N-term His, C-term Rho1D4, fraction 7,8

Image 2.

Image 3.