

Datasheet for ABIN3084717
NPTN Protein (AA 29-339) (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	NPTN
Protein Characteristics:	AA 29-339
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NPTN protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence: MQNAGFVKSP MSETKLTGDA FELYCDVVGS PTPEIQWWYA EVNRAESFRQ LWDGARKRRV
TVNTAYGSNG VSVLRITRLT LEDSGTYECL ASNDPKRNDL RQNPSITWIR AQATISVLQK
PRIVTSEEV I RDSPVLPVT LQCNTSSSH TLTSYWTGN GVELSATRKN ASNMEYRINK
PRAEDSGEYH CVYHFVSAPK ANATIEVKAA PDITGHRSE NKNEGQDATM YCKSVGYPHP
DWIWRKKENG MPMDIVNTSG RFFIINKENY TELNIVNLQI TEDPGEYECN ATNAIGSASV
VTVLRVRS HL APHHHHHH

Sequence including C-terminal His-tag.

Characteristics:	<ul style="list-style-type: none">• Made in Germany - from design to production - by highly experienced protein experts.• Human NPTN 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).• Tag Location: C-terminal His Tag
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Product Details

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 EDTA resistant 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:	Protein is endotoxin-free.
Grade:	Crystallography grade

Target Details

Target:	NPTN
Alternative Name:	NPTN (NPTN Products)
Background:	Probable homophilic and heterophilic cell adhesion molecule involved in long term potentiation at hippocampal excitatory synapses through activation of p38MAPK. May also regulate neurite outgrowth by activating the FGFR1 signaling pathway. May play a role in synaptic plasticity (By similarity). {ECO:0000250}.
Molecular Weight:	35.0 kD. Including tag.
UniProt:	Q9Y639
Pathways:	Regulation of long-term Neuronal Synaptic Plasticity

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

Application Details

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.
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