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# NPTN Protein (AA 29-339) (His tag)



**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**

Sequenc	ce:
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MQNAGFVKSP MSETKLTGDA FELYCDVVGS PTPEIQWWYA EVNRAESFRQ LWDGARKRRV
TVNTAYGSNG VSVLRITRLT LEDSGTYECR ASNDPKRNDL RQNPSITWIR AQATISVLQK
PRIVTSEEVI IRDSPVLPVT LQCNLTSSSH TLTYSYWTKN GVELSATRKN ASNMEYRINK
PRAEDSGEYH CVYHFVSAPK ANATIEVKAA PDITGHKRSE NKNEGQDATM YCKSVGYPHP
DWIWRKKENG MPMDIVNTSG RFFIINKENY TELNIVNLQI TEDPGEYECN ATNAIGSASV
VTVLRVRSHL APHHHHHH

## Sequence including C-terminal His-tag.

#### Characteristics:

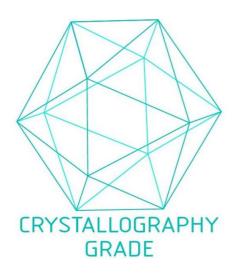
- Made in Germany from design to production by highly experienced protein experts.
- Human NPTN Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).
- Tag Location: C-terminal His Tag

	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