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NPC2 Protein (AA 20-149) (His tag)



Image



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1 mg
NPC2
AA 20-149
Mouse
Insect Cells
Recombinant
This NPC2 protein is labelled with His tag.
ELISA, SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys)
EPLHFKDCGS KVGVIKEVNV SPCPTDPCQL HKGQSYSVNI TFTSGTQSQN STALVHGILE
GIRVPFPIPE PDGCKSGINC PIQKDKVYSY LNKLPVKNEY PSIKLVVEWK LEDDKKNNLF
CWEIPVQITS
Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
special request, please contact us.
 Made in Germany - from design to production - by highly experienced protein experts. Mouse Npc2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
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State-of-the-art algorithm used for plasmid design (Gene synthesis).
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State-of-the-art algorithm used for plasmid design (Gene synthesis).
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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 receival 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

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:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- 2. Protein containing fractions of the best purification are subjected to 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.

specific reference buffer.

Grade:

Crystallography grade

Target Details

Target:	NPC2
Alternative Name:	Npc2 (NPC2 Products)
Background:	Intracellular cholesterol transporter which acts in concert with NPC1 and plays an important
	role in the egress of cholesterol from the endosomal/lysosomal compartment. Both NPC1 and
	NPC2 function as the cellular 'tag team duo' (TTD) to catalyze the mobilization of cholesterol
	within the multivesicular environment of the late endosome (LE) to effect egress through the

	limiting bilayer of the LE. NPC2 binds unesterified cholesterol that has been released from LDLs
	in the lumen of the late endosomes/lysosomes and transfers it to the cholesterol-binding
	pocket of the N-terminal domain of NPC1. Cholesterol binds to NPC1 with the hydroxyl group
	buried in the binding pocket and is exported from the limiting membrane of late endosomes/
	lysosomes to the ER and plasma membrane by an unknown mechanism. The secreted form of
	NCP2 regulates biliary cholesterol secretion via stimulation of ABCG5/ABCG8-mediated
	cholesterol transport. {ECO:0000269 PubMed:21315718}.
Molecular Weight:	15.4 kDa Including tag.
UniProt:	Q9Z0J0

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UniProt:	Q9Z0J0	
Pathways [.]	SARS-CoV-2 Protein Interactome	

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 gurantee though.
Comment:	Protein has not been tested for activity yet. 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. CST tag) instead to increase collability. We will discuss all passible

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:	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)



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