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# Contactin 5 Protein (CNTN5) (AA 24-1071) (His tag)



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### Overview

Quantity:	1 mg
Target:	Contactin 5 (CNTN5)
Protein Characteristics:	AA 24-1071
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Contactin 5 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### **Product Details**

Sequence:

LSGLSTSYAA LLRIKKSSTS PFGSKSRPRF SSPSLGTISV SPPSWRGAAQ QYHSPGNLYH
SSDAFRQDES VDYGPVFVQE PDDVIFPTDS DEKKVALNCE VRGNPSPSYR WLRNGTEIAL
ESDYRYSLID GTFIISNPSE LRDSGLYQCL ATNSFGSILS REATLQFAYL GNFSGRTRSA
VSVREGQGVV LMCSPPPHSP EIIYSWVFNE FPSFVAEDSR RFISQETGNL YISKVQTSDV
GSYICLVKNA VTNARVLSPP TPLTLRNDGV MGEYEPKIEV HFPFTVTAAK GTTVKMECFA
LGNPVPTITW MKVNGYIPSK SRLRKSQAVL EIPNLQLDDA GIYECTAENS RGKNSFRGQL
QIFTYPHWVQ KLNDTQLDSG SPLQWECKAT GKPRPTYRWL KNGAPLLPQS RVDTVNGILA
IQSVNQSDAG MYQCLAENKY GAIYASAELK ILASPPSFEL NQVKKSIIVT KDRGVLIECE
PQGSPKPAIS WRKGDKAVRA NKRIAILPDG SLRILNASKA DEGKYICQGV NIFGSAEIIA
SLSVKEPTRI ELTPKRTELT VGESIVLNCK AIHDASLDVT FYWTLKGQPI DFEKEGGHFE
NIRAQASSAD LMIRNILLMH AGRYGCRVQT TADSVSDEAE LLVRGPPGPP GVVIVEEITE
STATLSWSPA TDNHSPISSY NLQARSPFSL GWQTVKTVPE VITGDMESAM AVDLNPWVEY

EFRVVATNPI GTGDPSIPSR MIRTNEAVPK TAPSNVSGRS GRRHELVIAW EPVSEEFQNG
EGFGYIVAFR PNGTRGWKEK MVTSSEASKF IYRDESVPPL TPFEVKVGVY NNKGDGPFSQ
IVVICSAEGE PTAAPTDVTA TSVSVSEIFV VWKHVKESLG RPQGFEISYW KDTEPEDSVE
TVRTRGNESF VMLTGLEGNT LYHLTVRAYN GAGYGPPSRE ASTTTKRHPP REPPGNLRWE
QQGSQVSLGW EPVRPLANES EVMGYKVFYR QEGHSEGQVI ETQKPQAVVP LPEAGVYIIE
VRAYSEGGDG TASSQIRVPS YSGGKITS

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

### Characteristics:

- · Made in Germany from design to production by highly experienced protein experts.
- Mouse Cntn5 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 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 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:

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.
- 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.

Product Details	
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:	Contactin 5 (CNTN5)
Alternative Name:	Cntn5 (CNTN5 Products)
Background:	Contactins mediate cell surface interactions during nervous system development. Has some neurite outgrowth-promoting activity in the cerebral cortical neurons but not in hippocampal neurons (By similarity). Involved in neuronal activity in the auditory system. {ECO:0000250, ECO:0000269 PubMed:12653969}.
Molecular Weight:	116.0 kDa Including tag.
UniProt:	P68500
Pathways:	Sensory Perception of Sound
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. 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.
Llandling Advisor	Avoid repeated from those evalua

Avoid repeated freeze-thaw cycles.

Handling Advice:

## Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)