

Datasheet for ABIN3094079
NEO1 Protein (AA 34-1105) (His tag)



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Overview

Quantity:	1 mg
Target:	NEO1
Protein Characteristics:	AA 34-1105
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NEO1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

Product Details

Sequence:	ARSGSAPQSP GASIRTFPPF YFLVEPVDTL SVRGSSVILN CSAYSESPK IEWKKGDTFL NLVSDDRRQL LPDGSLFISN VVHSKHKNPD EGYQCVATV ESLGTIISRT AKLIVAGLPR FTSQPEPSSV YAGNNAILNC EVNADLVFPV RWEQNRQPLL LDDRVIKLP S GMLVISNATE GDGGLYRCVV ESGGPPKYS D EVELKVL PDP EVISDLVFLK QPSPLVRVIG QDVVLP CVAS GLPTPTIKWM KNEEALDTES SERLVLLAGG SLEISDVTED DAGTYFCIAD NGNETIEAQA ELTVQAQPEF LKQPTNIYAH ESM DIVFECE VTGKPTPTVK WVKNGDMVIP SDYFKIVKEH NLQVLGLVKS DEGFYQCIAE NDVGNAQAGA QLIILEHAPA TTGPLPSAPR DVVASLVSTR FIKLTWRTPA SDPHGDNLTY SVFYTKEGIA RERVENTSHP GEMQVTIQNL MPATVYIFRV MAQNKHGS GE SSAPLRVETQ PEVQLPGPAP NLRAYAASPT SITVTWETPV SGNGEIQNYK LYYMEKGT DK EQDVDVSSH S YTINGLK KYT EYSFRV VAYN KHGPGVSTPD VAVRTLSDVP SAAPQNLSLE VRNSKSIMIH WQPPAPATQN GQITGYKIRY RKASRKSDVT ETLVSGTQLS QLIEGLDRGT EYNFRVAALT INGTGPATDW LSAETFESDL DETRVPEVPS SLHVRPLVTS
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IVVSWTPPEN QNIVVRGYAI GYGIGSPHAQ TIKVDYKQRY YTENLDPSS HYVITLKAFN
NVGEGIPLYE SAVTRPHTDT SEVDLFVINA PYTPVPDPTP MMPPVGVQAS ILSHDTIRIT
WADNSLPKHQ KITDSRYTV RWKTNIPANT KYKNANATTL SYLVTGLKPN TLYEFSVMVT
KGRRSSTWSM TAHGTTTFELV PTSPPKDVTV VSKEGKPKTI IVNWQPPSEA NGKITGYIY
YSTDVNAEIH DWVIEPVVGN RLTHQIQELT LDTPYYFKIQ ARNSKGMGPM SEAVQFRTPK
ADSSDKMPND QASGSGGKGS RLPDLGSDYK PPMSGSNSPH GSPTSPLDSN ML

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.
- Human NEO1 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 receipt 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.
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.

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:	NEO1
Alternative Name:	NEO1 (NEO1 Products)
Background:	Multi-functional cell surface receptor regulating cell adhesion in many diverse developmental processes, including neural tube and mammary gland formation, myogenesis and angiogenesis. Receptor for members of the BMP, netrin, and repulsive guidance molecule (RGM) families. Netrin-Neogenin interactions result in a chemoattractive axon guidance response and cell-cell adhesion, the interaction between NEO1/Neogenin and RGMa and RGMb induces a chemorepulsive response. {ECO:0000269 PubMed:21149453}.
Molecular Weight:	118.6 kDa Including tag.
UniProt:	Q92859
Pathways:	Transition Metal Ion Homeostasis , Regulation of Muscle Cell Differentiation , Tube Formation

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 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

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)