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Datasheet for ABIN3113546
CD130/gp130 Protein (AA 23-918) (rho-1D4 tag)

Overview

Quantity:	1 mg
Target:	CD130/gp130 (IL6ST)
Protein Characteristics:	AA 23-918
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD130/gp130 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence: ELLDPCGYIS PESPVVQLHS NFTAVCVLKE KCMDYFHVNA NYIVWKTNHF TIPKEQYTII
NRTASSVTFT DIASLNIQLT CNILTFGQLE QNVYGITIIS GLPPEKPKNL SCIVNEGKKM
RCEWDGGRET HLETNFTLKS EWATHKFADC KAKRDTPTSC TVDYSTVYFV NIEVWVEAEN
ALGKVTSDHI NFDPVYKVKP NPPHNLSVIN SEELSSILKL TWTNPSIKSV IILKYNIQYR
TKDASTWSQI PPEDASTRS SFTVQDLKPF TEYVFRIRCM KEDGKGYWSD WSEEASGITY
EDRPSKAPSF WYKIDPSHTQ GYRTVQLVWK TLPPFEANGK ILDYEVTLTR WKSHLQNYTV
NATKLTVNLT NDRYLATLTV RNLVGKSDAA VLTIPACDFQ ATHPVMDLKA FPKDNMLWVE
WTTPRESVKK YILEWCVLSD KAPCITDWQQ EDGTVHRTYL RGNLAESKCY LITVTPVYAD
GPGSPESIKA YLKQAPPSKG PTVRTKKVGK NEAVLEWDQL PVDVQNGFIR NYTIFYRTII
GNETAVNVDS SHTEYTLSSL TSDTLYMVRM AAYTDEGGKD GPEFTFTTPK FAQGEIEAIV
VPVCLAFLLT TLLGVLFCFN KRDLIKKHIW PNVDPSPKSH IAQWSPHTPP RHNFNKSDQM
YSDGNFTDVS VVEIANDKK PFPEDLKSLD LFKKEKINTE GHSSGIGGSS CMSSSRPSIS

SSDENESSQN TSSTVQYSTV VHSGYRHQVP SVQVFSRSES TQPLLDSEER PEDLQLVDHV
DGGDGILPRQ QYFKQNC SQH ESSPDISHFE RSKQVSSVNE EDFVRLKQKI SDHISQSCGS
GQMKMFQEV S AADAFGPGTE GQVERFETVG MEAATDEGMP KSYLPQTVRQ GGYMPQ

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 IL6ST 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:

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

1. Membrane proteins are fractionated by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. 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:	CD130/gp130 (IL6ST)
Alternative Name:	IL6ST (IL6ST Products)
Background:	<p>Signal-transducing molecule. The receptor systems for IL6, LIF, OSM, CNTF, IL11, CTF1 and BSF3 can utilize IL6ST for initiating signal transmission. Binding of IL6 to IL6R induces IL6ST homodimerization and formation of a high-affinity receptor complex, which activates Janus kinases (PubMed:2261637). That causes phosphorylation of IL6ST tyrosine residues which in turn activates STAT3 (PubMed:19915009, PubMed:23294003). Mediates signals which regulate immune response, hematopoiesis, pain control and bone metabolism (By similarity). Has a role in embryonic development (By similarity). Does not bind IL6 (PubMed:2261637). Essential for survival of motor and sensory neurons and for differentiation of astrocytes (By similarity). Required for expression of TRPA1 in nociceptive neurons (By similarity). Required for the maintenance of PTH1R expression in the osteoblast lineage and for the stimulation of PTH-induced osteoblast differentiation (By similarity). Required for normal trabecular bone mass and cortical bone composition (By similarity). {ECO:0000250 UniProtKB:Q00560, ECO:0000269 PubMed:19915009, ECO:0000269 PubMed:2261637, ECO:0000269 PubMed:23294003}.</p>
Molecular Weight:	102.2 kDa Including tag.
UniProt:	P40189
Pathways:	JAK-STAT Signaling , Cellular Glucan Metabolic Process , Autophagy , Smooth Muscle Cell Migration , Cancer Immune Checkpoints

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

Application Details

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 Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)