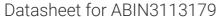
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FGFR3 Protein (AA 23-806) (rho-1D4 tag)





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Overview

Quantity:	1 mg
Target:	FGFR3
Protein Characteristics:	AA 23-806
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FGFR3 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:

ESLGTEQRVV GRAAEVPGPE PGQQEQLVFG SGDAVELSCP PPGGGPMGPT VWVKDGTGLV PSERVLVGPQ RLQVLNASHE DSGAYSCRQR LTQRVLCHFS VRVTDAPSSG DDEDGEDEAE DTGVDTGAPY WTRPERMDKK LLAVPAANTV RFRCPAAGNP TPSISWLKNG REFRGEHRIG GIKLRHQQWS LVMESVVPSD RGNYTCVVEN KFGSIRQTYT LDVLERSPHR PILQAGLPAN QTAVLGSDVE FHCKVYSDAQ PHIQWLKHVE VNGSKVGPDG TPYVTVLKTA GANTTDKELE VLSLHNVTFE DAGEYTCLAG NSIGFSHHSA WLVVLPAEEE LVEADEAGSV YAGILSYGVG FFLFILVVAA VTLCRLRSPP KKGLGSPTVH KISRFPLKRQ VSLESNASMS SNTPLVRIAR LSSGEGPTLA NVSELELPAD PKWELSRARL TLGKPLGEGC FGQVVMAEAI GIDKDRAAKP VTVAVKMLKD DATDKDLSDL VSEMEMMKMI GKHKNIINLL GACTQGGPLY VLVEYAAKGN LREFLRARRP PGLDYSFDTC KPPEEQLTFK DLVSCAYQVA RGMEYLASQK CIHRDLAARN VLVTEDNVMK IADFGLARDV HNLDYYKKTT NGRLPVKWMA PEALFDRVYT HQSDVWSFGV LLWEIFTLGG SPYPGIPVEE LFKLLKEGHR MDKPANCTHD LYMIMRECWH AAPSQRPTFK

QLVEDLDRVL TVTSTDEYLD LSAPFEQYSP GGQDTPSSSS SGDDSVFAHD LLPPAPPSSG GSRT 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 FGFR3 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:

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

- 1. Membrane proteins are fractioned 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.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Product Details

1 Toddet Details	
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade
Target Details	
Target:	FGFR3
Alternative Name:	FGFR3 (FGFR3 Products)
Background:	Tyrosine-protein kinase that acts as cell-surface receptor for fibroblast growth factors and
	plays an essential role in the regulation of cell proliferation, differentiation and apoptosis. Plays
	an essential role in the regulation of chondrocyte differentiation, proliferation and apoptosis,
	and is required for normal skeleton development. Regulates both osteogenesis and postnatal
	bone mineralization by osteoblasts. Promotes apoptosis in chondrocytes, but can also promote
	cancer cell proliferation. Required for normal development of the inner ear. Phosphorylates
	PLCG1, CBL and FRS2. Ligand binding leads to the activation of several signaling cascades.
	Activation of PLCG1 leads to the production of the cellular signaling molecules diacylglycerol
	and inositol 1,4,5-trisphosphate. Phosphorylation of FRS2 triggers recruitment of GRB2, GAB1,
	PIK3R1 and SOS1, and mediates activation of RAS, MAPK1/ERK2, MAPK3/ERK1 and the MAP
	kinase signaling pathway, as well as of the AKT1 signaling pathway. Plays a role in the
	regulation of vitamin D metabolism. Mutations that lead to constitutive kinase activation or
	impair normal FGFR3 maturation, internalization and degradation lead to aberrant signaling.
	Over-expressed or constitutively activated FGFR3 promotes activation of PTPN11/SHP2,
	STAT1, STAT5A and STAT5B. Secreted isoform 3 retains its capacity to bind FGF1 and FGF2
	and hence may interfere with FGF signaling. {ECO:0000269 PubMed:10611230,
	ECO:0000269 PubMed:11294897, ECO:0000269 PubMed:11703096,
	ECO:0000269 PubMed:14534538, ECO:0000269 PubMed:16410555,
	ECO:0000269 PubMed:16597617, ECO:0000269 PubMed:17145761,
	ECO:0000269 PubMed:17311277, ECO:0000269 PubMed:17509076,
	ECO:0000269 PubMed:17561467, ECO:0000269 PubMed:19088846,
	ECO:0000269 PubMed:19286672, ECO:0000269 PubMed:8663044}.
Molecular Weight:	87.0 kDa Including tag.
UniProt:	P22607
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin

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Signaling Pathway, Stem Cell Maintenance, Growth Factor Binding

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:	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: Handling	For Research Use only
Format:	Liquid
D ((
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Buffer: Handling Advice:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer. Avoid repeated freeze-thaw cycles.
Handling Advice:	Avoid repeated freeze-thaw cycles.

Images



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