Datasheet for ABIN3112203

c-MET Protein (AA 25-1390) (rho-1D4 tag)

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Overview

Quantity:	1 mg
Target:	c-MET (MET)
Protein Characteristics:	AA 25-1390
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This c-MET protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	ECKEALAKSE MNVNMKYQLP NFTAETPIQN VILHEHHIFL GATNYIYVLN EEDLQKVAEY KTGPVLEHPD CFPCQDCSSK ANLSGGVWKD NINMALVVDT YYDDQLISCG SVNRGTCQRH VFPHNHTADI QSEVHCIFSP QIEEPSQCPD CVVSALGAKV LSSVKDRFIN FFVGNTINSS YFPDHPLHSI SVRRLKETKD GFMFLTDQSY IDVLPEFRDS YPIKYVHAFE SNNFIYFLTV QRETLDAQTF HTRIIRFCSI NSGLHSYMEM PLECILTEKR KKRSTKKEVF NILQAAYVSK PGAQLARQIG ASLNDDILFG VFAQSKPDSA EPMDRSAMCA FPIKYVNDFF NKIVNKNNVR CLQHFYGPNH EHCFNRTLLR NSSGCEARRD EYRTEFTTAL QRVDLFMGQF SEVLLTSIST FIKGDLTIAN LGTSEGRFMQ VVVSRSGPST PHVNFLLDSH PVSPEVIVEH TLNQNGYTLV ITGKKITKIP LNGLGCRHFQ SCSQCLSAPP FVQCGWCHDK CVRSEECLSG TWTQQICLPA IYKVFPNSAP LEGGTRLTIC GWDFGFRRNN KFDLKKTRVL LGNESCTLTL SESTMNTLKC TVGPAMNKHF NMSIIISNGH GTTQYSTFSY VDPVITSISP KYGPMAGGTL LTLTGNYLNS GNSRHISIGG KTCTLKSVSN SILECYTPAQ TISTEFAVKL KIDLANRETS IFSYREDPIV YEIHPTKSFI

	SGGSTITGVG KNLNSVSVPR MVINVHEAGR NFTVACQHRS NSEIICCTTP SLQQLNLQLP LKTKAFFMLD GILSKYFDLI YVHNPVFKPF EKPVMISMGN ENVLEIKGND IDPEAVKGEV LKVGNKSCEN IHLHSEAVLC TVPNDLLKLN SELNIEWKQA ISSTVLGKVI VQPDQNFTGL IAGVVSISTA LLLLLGFFLW LKKRKQIKDL GSELVRYDAR VHTPHLDRLV SARSVSPTTE MVSNESVDYR ATFPEDQFPN SSQNGSCRQV QYPLTDMSPI LTSGDSDISS PLLQNTVHID LSALNPELVQ AVQHVVIGPS SLIVHFNEVI GRGHFGCVYH GTLLDNDGKK IHCAVKSLNR ITDIGEVSQF LTEGIIMKDF SHPNVLSLLG ICLRSEGSPL VVLPYMKHGD LRNFIRNETH NPTVKDLIGF GLQVAKGMKY LASKKFVHRD LAARNCMLDE KFTVKVADFG LARDMYDKEY YSVHNKTGAK LPVKWMALES LQTQKFTTKS DVWSFGVLLW ELMTRGAPPY PDVNTFDITV YLLQGRRLLQ PEYCPDPLYE VMLKCWHPKA EMRPSFSELV SRISAIFSTF IGEHYVHVNA TYVNVKCVAP YPSLLSSEDN ADDEVDTRPA SFWETS **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 MET 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

Product Details

	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
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade

Target Details

Target:	c-MET (MET)
Alternative Name:	MET (MET Products)
Background:	Receptor tyrosine kinase that transduces signals from the extracellular matrix into the cytoplasm by binding to hepatocyte growth factor/HGF ligand. Regulates many physiological processes including proliferation, scattering, morphogenesis and survival. Ligand binding at the cell surface induces autophosphorylation of MET on its intracellular domain that provides docking sites for downstream signaling molecules. Following activation by ligand, interacts with the PI3-kinase subunit PIK3R1, PLCG1, SRC, GRB2, STAT3 or the adapter GAB1. Recruitment of these downstream effectors by MET leads to the activation of several signaling cascades including the RAS-ERK, PI3 kinase-AKT, or PLCgamma-PKC. The RAS-ERK activation is associated with the morphogenetic effects while PI3K/AKT coordinates prosurvival effects. During embryonic development, MET signaling plays a role in gastrulation, development and migration of muscles and neuronal precursors, angiogenesis and kidney formation. In adults, participates in wound healing as well as organ regeneration and tissue remodeling. Promotes also differentiation and proliferation of hematopoietic cells., Acts as a receptor for Listeria internalin inlB, mediating entry of the pathogen into cells.
Molecular Weight:	154.2 kDa Including tag.
UniProt:	P08581

Target Details

Pathways:	RTK Signaling, Carbohydrate Homeostasis, Synaptic Membrane, Signaling of Hepatocyte Growth Factor Receptor

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:	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)

