

Datasheet for ABIN3135518

MST1R Protein (AA 24-1378) (rho-1D4 tag)[Go to Product page](#)**1** Image

Overview

| | |
|-------------------------------|--|
| Quantity: | 1 mg |
| Target: | MST1R |
| Protein Characteristics: | AA 24-1378 |
| Origin: | Mouse |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This MST1R protein is labelled with rho-1D4 tag. |
| Application: | Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys) |

Product Details

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| Sequence: | STNLNWQCPR IPYAASRDFS VKYVVPFSFA GGRVQATAAY EDSTNSAVFV ATRNHLHVLG PDLQFIENLT TGPIGNPGCQ TCASCGPGPH GPPKDTDTLV LVMEPGLPAL VSCGSTLQGR CFLHELEPRG KALHLAAPAC LFSANNKPE ACTDCVASPL GTRVTVVEQG HASYFYVASS LDPELAASF S PRSVSIRRLK SDTSGFQPGF PSLSVLPKYL ASYLIKVVYS FHSGDFVYFL TVQPISVTSP PSALHTRLVR LNAVEPEIGD YRELVLDCHF APKRRRRRGAP EGTQYPVVLQ AAHSAPVDAK LAVELSISEG QEVLFGVFVT VKDGGSGMGP NSVVCAPPIY HLNILIEEGV EYCCHSSNSS SLLSRGLDFF QTPSFCPNPP GGEASGPSSR CHYFPLMVHA SFTRVDLFNG LLGSVKVTAL HVTRLGNVTV AHMGTV DGRV LQVEIARSLN YLLYVSNFSL GSSGQPVHRD VSRLGNDLLF ASGDQVFKVP IQGPGCRHFL TCWRCLRAQR FMGCGWCGDR CDRQKECPGS WQQDHCPPEI SEFYPHSGPL RGTTRLTL CG SNFYLRPDDV VPEGTHQITV GQSPCRLLPK DSSSPRPGSL KEFIQELECE LEPLVTQAVG TTNISLVITN MPAGKHFRVE GISVQEGFSF VEPVLTSIKP DFGPRAGGTY LTLEGQSLSV GTSRAVLVNG TQCRLEQVNE EQILCVTPPG |
|-----------|---|

AGTARVPLHL QIGGAEVPGS WTFHYKEDPI VLDISPKCGY SGSHIMIHGQ HLTSAWHFTL
SFHDGQSTVE SRCAGQFVEQ QRRRCRLPEY VVRNPQGWAT GNLSVWGDGA AGFTLPGFRF
LPPPSPLRAG LVELKPEEHS VKVEYVGLGA VADCVTVNMT VGGEVCQHEL RGDVVICPLP
PSLQLGKDG V PLQVCVDGGC HILSQVVRSS PGRASQRILL IALLVLILLV AVLAVALIFN
SRRRKKQLGA HSLSP TTLSD IND TASGAPN HEESSES RDG TSVPLLRTES IRLQDLDRML
LAEVKDVLIP HEQVVIHTDQ VIGKGHFGV V YHGEYTDGAQ NQTHCAIKSL SRITEVQEVE
AFLREGLLMR GLHHPNIAL IGIMLPPEGL PRVLLPYMRH GDLLHFIRSP QRNPTVKDLV
SFG LQVACGM EYLAEQKFVH RDLAARN CML DESFTVKVAD FGLARGVLDK EYYSVRQHRH
ARLPVKWMAL ESLQTYRFTT KSDVWSFGVL LWELLTRGAP PYPHIDPFDL SHFLAQGRRL
PQPEYCPDSL YHVMLRCWEA DPAARPTFRA LVLEV KQVVA SLLGDHYVQL TAA YVNVGPR
AVDDGSVPPE QVQPSPQHCR STSKPRPLSE PPLPT

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 Mst1r 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

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: MST1R

Alternative Name: Mst1r ([MST1R Products](#))

Background: Receptor tyrosine kinase that transduces signals from the extracellular matrix into the cytoplasm by binding to MST1 ligand. Regulates many physiological processes including cell survival, migration and differentiation. Ligand binding at the cell surface induces autophosphorylation of RON on its intracellular domain that provides docking sites for downstream signaling molecules. Following activation by ligand, interacts with the PI3-kinase subunit PIK3R1, PLCG1 or the adapter GAB1. Recruitment of these downstream effectors by RON leads to the activation of several signaling cascades including the RAS-ERK, PI3 kinase-AKT, or PLCgamma-PKC. RON signaling activates the wound healing response by promoting epithelial cell migration, proliferation as well as survival at the wound site. Plays also a role in the innate immune response by regulating the migration and phagocytic activity of macrophages. Alternatively, RON can also promote signals such as cell migration and proliferation in response to growth factors other than MST1 ligand.

Molecular Weight: 149.2 kDa Including tag.

UniProt: [Q62190](#)

Pathways: [RTK Signaling](#)

Application Details

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| 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: | 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

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| 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) |

Images



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