



[Go to Product page](#)

Datasheet for ABIN3131136
IGSF9B Protein (AA 18-1328) (rho-1D4 tag)

Overview

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| Quantity: | 1 mg |
| Target: | IGSF9B |
| Protein Characteristics: | AA 18-1328 |
| Origin: | Mouse |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This IGSF9B protein is labelled with rho-1D4 tag. |
| Application: | Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB) |

Product Details

Sequence: LVAQGAHGLR EEPEFVTARA GEGVLRCDV IHPVTGQPPP YVVEWFKFGV PIPIFIKFGY
YPPHVDPEYA GRASLHDKAS LRLEQVRSED QGWYECKVLM LDQQYDTFHN GSWVHLTINA
PPTFTETPPQ YIEAKEGCSI TMTCTAFGNP KPIVTWLKEG TLLGASAKYQ VSDGSLTVTS
VSREDRGAYT CRAYSIQGEA VHTTHLLVQG PPFIVSPPEN ITVNISQDAL LTCRAEAYPG
NLTYTWYWQD ENVYFQNDLK LRVRLIDGT LIIFRVKPED AGKYTCVPSN SLGRSPSASA
YLTVQYPARV LNMPPVIYVP VGIHGYIRCP VDAEPPATVV KWNKDGRLPLQ VEKNLGWTLM
EDGSIRIEEA TEEALGTYTC VPYNTLGTMG QSAPARLVLK DPPYFTVLPG WEYRQEAGRE
LLIPCAAAGD PFPVITWRKV GKPSRSKHNA LPSGSLQFRA LSKEDHGEWE CVATNVVTSI
TASTHLTVIG TSPHAPGSVR VHVSMTTANV SWEPGYDGGY EQTFSVWMKR AQFGPHDWLS
LSVPPGPSWL LVDSLEPETA YQFSVLAQNR LGTSAFSEVV TVNTLAFPVT TPEPLVLVTP
PRCLTANRTQ QGVLLSWLPP ANHSFPIDRY IMEFRVGERW EMLDDAIPGT DGDFFAKDLS
QDTWYEFRLV AVMQDLISEP SNIAGVSSTD IFPQPDLTDD GLARPVLVLAGI VATICFLAAA

ILFSTLAACF VNKQRKRKLLK RKKDPPLSIT HCRKSLESPL SSGKVSPESI RTLRAPESS
DDQGQPAAKR MLSPTREKEL SLYKKTKRAI SSRKYSVAKA EAEAEATTPI ELISRGPDGR
FVMGPSEMEP SVKGRRIEGF PFAEETDMYP EFRQSDEENE DPLVPTSVAAL LKPQLTPMSS
SQDSYLPSPA YSPRFQPRGL EGPSGLGGRL QATGQARPPA PRPFQHGQYY GYLSSSSPGE
VEPPPFYMPE VGSPLSSVMS SPPLHTEGPF GHPTIPEENG ENASNSTLPL TQTPTGGRSP
EPWGRPEFPF GGLETPAMMF PHQLHPCDVA ESLQPKACL P RGLPPAPLQV PAAYPGMLSL
EAPKGWVGKS PGRGPIAPP ATKWQERPMQ PLVSQQLRH TSQGMGIPVL PYPEPAEPGG
HGGPSTFGLD TRWYEPQPRP RPSRQARRA EPSLHQVVLQ PSRLSPLTQS PLSSRTGSPE
LAARARPRPG LLQQAEMSEI TLQPPAAVSF SRKSTPSSTG SPSQSSRSGS PSYRPTMGFT
TLATGYSPPP PGPAPPAPGD TLDVFGQTPS PRRMGEEPLR PEPPTTLPTS

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 Igsf9b 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:

Product Details

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.

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| Purity: | >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. |
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| Sterility: | 0.22 µm filtered |
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| Endotoxin Level: | Protein is endotoxin-free. |
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| Grade: | Crystallography grade |
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Target Details

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| Target: | IGSF9B |
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| Alternative Name: | Igsf9b (IGSF9B Products) |
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| Background: | Transmembrane protein which is abundantly expressed in interneurons, where it may regulate inhibitory synapse development (By similarity). May mediate homophilic cell adhesion (PubMed:23751499). {ECO:0000250 UniProtKB:D3ZB51, ECO:0000269 PubMed:23751499}. |
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| Molecular Weight: | 144.2 kD. Including tag. |
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| UniProt: | E9PZ19 |
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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. |
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| 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. |
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| Restrictions: | For Research Use only |
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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) |