

Datasheet for ABIN3134879
AGBL1 Protein (AA 1-972) (His tag)



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1 Image

Overview

| | |
|-------------------------------|--|
| Quantity: | 1 mg |
| Target: | AGBL1 |
| Protein Characteristics: | AA 1-972 |
| Origin: | Mouse |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This AGBL1 protein is labelled with His tag. |
| Application: | Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB) |

Product Details

Sequence: MISKGGSEAL LQTLVDTARS SSPDWDILLP LFRLLAKVGL RDKKFGQKAL ELEALDVTLI
LARKNLSHSQ NLLHCLWVLR VFASSVTTGA MLGINGAMEL LFKVLSPYTR KHTRTIRAAT
EVLAALLKSS KHLRRAVNRG YVNSLLRLHQ DWHSRDVTNT YVTIRHGLLL CLRHIVALRS
GREAFLAAQG METLFSSAQT CLENKNMELV ISAVIQILRQ CYPASRLPLV TASSAYTFPA
PGSTSELPL NLTEEDFDDD GDEEMDKDSD VEAVKEDDDL ETDLSKLSK PGLDLPEEEL
AQYDAMCPEL SCSFEELEPK CGDDLNNKDT LHANHHHIPS VASLRQHCFN REHSSWRQER
EDTVHSSILH MVKTGKSGVP SSSKQRSATN VNQSLQQNGL EIDSSGHDTSDI QAPLEQAA
WDMEAISCPR ITASFPNSTK PEESIGAAEK LLHTHAKHIP FHDPHLYIAN AMRTRSAVGF
KTMAFPDLWG HCPPPAAQPM LDRKLGVQRI KILEDIRRL HPSDVINKVV FSLDEPRPLQ
GSISNCLMFH SKFESGNLRK AIQVREFEYD LLVNADVNSS QHQWYFYFKV SGMRAAVPYH
FNIINCEKPN SQFNYGMQPT LYSVKEALLG RPAWIRTGSD ICYYKNHYRQ NAATMDGALG
KRYTTLTFAV TFPHNEDACY LAYHYPYTYSTLMTHLEILE RSIDHREIYF RHDVLCQTLG

GNPCPLVTIT AFPESTEHL EQFRCPYQ VITARVHPGE SNASWVMKGT LEFLVSSDPV
AKLLRENFVF KIIPMLNPDG VINGNHRCSL RGEDLNRQWL SPQAHLQPTI YHAKGLLHYL
SSTGRGPVVF CDFHGHSSQKK NVFLYGCSMK ETLWQAGCTV GESALLEDVS YRTLPKILDK
LAPFTMNSC SFLVEKSRAS TARVWVWREM GVSRSYTMES SYCGCNQGPY QVCEVYTARS
LCSAADHKNR GK

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 Agbl1 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:

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

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Product Details

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| 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

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|-------------------|---|
| Target: | AGBL1 |
| Alternative Name: | Agbl1 (AGBL1 Products) |
| Background: | Metallocarboxypeptidase that mediates deglutamylation of target proteins. Catalyzes the deglutamylation of polyglutamate side chains generated by post-translational polyglutamylation in proteins such as tubulins. Also removes gene-encoded polyglutamates from the carboxy-terminus of target proteins such as MYLK. Acts as a long-chain deglutamylase and specifically shortens long polyglutamate chains, while it is not able to remove the branching point glutamate, a process catalyzed by AGBL5/CCP5. {ECO:0000269 PubMed:21074048, ECO:0000269 PubMed:25103237}. |
| Molecular Weight: | 110.3 kDa Including tag. |
| UniProt: | Q09M05 |

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

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