

Datasheet for ABIN3135895

MGAT5B Protein (AA 1-792) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	MGAT5B
Protein Characteristics:	AA 1-792
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MGAT5B protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MITVNPDGKI MVRRCVLTLR PFRLFVLGIG FFTLCFLMTS LGGQFSARRL GDSPFTIRTE</p> <p>VPGSPESRGA LRKMSDLLEL MVKRMDMLAR LENSSELHRT ASVAHLAADR LTPGASLIER</p> <p>IQAIAQNVSD IAVKVDQILR HSLILHSHKVS EGRRDQCEAP SDPKFPDCSG KVEWMRARWT</p> <p>SDPCYAFFGV DGTECSFLIY LSEVEWFCPP LPWRNQTAAR TAPKSLPRVQ AVFRSNLSHL</p> <p>LELMGSGKES LIFMKKRTRR FTAQWTKAAK YLAQKLGDIR RDQKQILVHI GFLTEESGDV</p> <p>FSPRVLKGGP LGEMVQWADI LAALYVLGHS LRITVSLKEL QSNLGVPPGR GNCPLTVPLP</p> <p>FDLIYTDYHG LQQMKQHMGL SFKKYRCRIR VIDTFGTEPA YNHEEYATLH GYRTNWGYWN</p> <p>LNPQKFMTMF PHTPDNSFMG FVSEELNETE KQLIKDGKAS NMAVVGKEA SIWKLQGKEK</p> <p>FLAVLNKYME IHGTVYYESQ RPPEVPAFVK NHGLLPQPEF QLLLRKAKLF IGFGFPYEGP</p> <p>APLEAIANGC IFLQSRFSPP HSSLNHEFFR GKPTSREVFQ QHPYAENFIG KPHVWTVDYN</p> <p>NSDEFETAIK AIMNTQVDPY LPYEYTCAGM LERINAYIQH QDFCVGPSPL PPGASTAQSP</p>

FVLAPNATHL EWAQNISSVP GAWPPTHSLR AWLAAPGRAC TDACLDHGLI CEPSFFPFLN
SQNSFLKLQV PCDSTEWEMH HLYPAFAQPG QECYLQKEPL LFSCAGASTK YQRLCPCRDF
RKGQVALCQG CL

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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 try to ensure that you receive soluble 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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression

Product Details

	System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	MGAT5B
Alternative Name:	Mgat5b (MGAT5B Products)
Background:	<p>Alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase B (EC 2.4.1.-) (EC 2.4.1.155) (Alpha-mannoside beta-1,6-N-acetylglucosaminyltransferase B) (GlcNAc-T Vb) (GNT-Vb) (Mannoside acetylglucosaminyltransferase 5B) (N-acetylglucosaminyl-transferase Vb) (N-acetylglucosaminyltransferase IX) (GNT-IX),FUNCTION: Glycosyltransferase that acts on alpha-linked mannose of N-glycans and O-mannosyl glycans. Catalyzes the transfer of N-acetylglucosamine (GlcNAc) to the beta 1-6 linkage of the mannose residue of GlcNAc-beta1,2-Man-alpha on both the alpha1,3- and alpha1,6-linked mannose arms in the core structure of N-glycan (By similarity). Also acts on the GlcNAc-beta1,2-Man-alpha1-Ser/Thr moiety, forming a 2,6-branched structure in brain O-mannosyl glycan (PubMed:22715095). Plays an active role in modulating integrin and laminin-dependent adhesion and migration of neuronal cells via its activity in the O-mannosyl glycan pathway. {ECO:0000250 UniProtKB:Q3V5L5, ECO:0000269 PubMed:22715095}.</p>
Molecular Weight:	89.5 kDa
UniProt:	Q765H6

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 guarantee though.
Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.</p> <p>During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the</p>

Application Details

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Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months