

Datasheet for ABIN3131367

LFNG Protein (AA 1-378) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	LFNG
Protein Characteristics:	AA 1-378
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This LFNG protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MLQRCGRRL LALVGALLAC LLVLTADPPP TPMPAERGRR ALRSLAGSSG GAPASGSRAA VDPGVLTRV HSLSEYFSL TRARRDADPP PGVASRQGDG HPRPPAEVLS PRDVFIKVT TRKFHRRALD LLFETWISRH KEMTFIFTDG EDEALAKLTG NVVLTNCSSA HSRQALSCKM AVEYDRFIES GKKWFCHVDD DNYVNLRLALL RLLASYPHTQ DVIYIKPSLD RPIQATERIS EHKVRPVHFW FATGGAGFCI SRGLALKMGP WASGGHFMST AERIRLPDDC TIGYIVEALL GVPLIRSLGF HSHLENLQQV PTTELHEQVT LSYGMFENKR NAVHIKGPFS VEADPSRFRS VHCHLYPDTP WCPRSAIF 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:

Product Details

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

Target Details

Target:	LFNG
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Target Details

Alternative Name:	Lfng (LFNG Products)
Background:	Beta-1,3-N-acetylglucosaminyltransferase lunatic fringe (EC 2.4.1.222) (O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase),FUNCTION: Glycosyltransferase that initiates the elongation of O-linked fucose residues attached to EGF-like repeats in the extracellular domain of Notch molecules (PubMed:10935626). Modulates NOTCH1 activity by modifying O-fucose residues at specific EGF-like domains resulting in inhibition of NOTCH1 activation by JAG1 and enhancement of NOTCH1 activation by DLL1 via an increase in its binding to DLL1 (PubMed:28089369, PubMed:16385447). Decreases the binding of JAG1 to NOTCH2 but not that of DLL1 (By similarity). Essential mediator of somite segmentation and patterning. During somite boundary formation, it restricts Notch activity in the presomitic mesoderm to a boundary-forming territory in the posterior half of the prospective somite. In this region, Notch function activates a set of genes that are involved in boundary formation and in anterior-posterior somite identity (PubMed:10330372). Ectopically expressed in the thymus, Lfng inhibits Notch signaling which results in inhibition of T-cell commitment and promotes B-cell development in lymphoid progenitors (PubMed:11520458). May play a role in boundary formation of the enamel knot (PubMed:12167404). {ECO:0000250 UniProtKB:Q8NES3, ECO:0000269 PubMed:10330372, ECO:0000269 PubMed:10935626, ECO:0000269 PubMed:11520458, ECO:0000269 PubMed:12167404, ECO:0000269 PubMed:16385447, ECO:0000269 PubMed:28089369}.
Molecular Weight:	42.0 kDa
UniProt:	O09010
Pathways:	Notch Signaling

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.
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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