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LITAF Protein (AA 1-161) (Strep Tag)



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Quantity:	1 mg
Target:	LITAF
Protein Characteristics:	AA 1-161
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This LITAF protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

MSVPGPYQAA TGPSSAPSAP PSYEETVAVN SYYPTPPAPM PGPTTGLVTG PDGKGMNPPS YYTQPAPIPN NNPITVQTVY VQHPITFLDR PIQMCCPSCN KMIVSQLSYN AGALTWLSCG SLCLLGCIAG CCFIPFCVDA LQDVDHYCPN CRALLGTYKR L

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 by multi-step, protein-specific process to ensure correct folding and modification.
- · 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 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.

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 posttranslational 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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System		
	(ALiCE®):		
	1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.		
	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.		
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.		
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)		
Grade:	Crystallography grade		

Target Details

Target:	LITAF	
Alternative Name:	LITAF (LITAF Products)	
Background:	Lipopolysaccharide-induced tumor necrosis factor-alpha factor (LPS-induced TNF-alpha factor	
	(Small integral membrane protein of lysosome/late endosome) (p53-induced gene 7	
	protein),FUNCTION: Plays a role in endosomal protein trafficking and in targeting proteins for	
	lysosomal degradation (PubMed:23166352). Plays a role in targeting endocytosed EGFR and	
	ERGG3 for lysosomal degradation, and thereby helps down-regulate downstream signaling	
	cascades (PubMed:23166352). Helps recruit the ESCRT complex components TSG101, HGS	
	and STAM to cytoplasmic membranes (PubMed:23166352). Probably plays a role in regulating	
	protein degradation via its interaction with NEDD4 (PubMed:15776429). May also contribute to	
	the regulation of gene expression in the nucleus (PubMed:10200294, PubMed:15793005).	
	Binds DNA (in vitro) and may play a synergistic role with STAT6 in the nucleus in regulating the	
	expression of various cytokines (PubMed:15793005). May regulate the expression of numerous	
	cytokines, such as TNF, CCL2, CCL5, CXCL1, IL1A and IL10 (PubMed:10200294,	
	PubMed:15793005). {ECO:0000269 PubMed:15793005, ECO:0000269 PubMed:23166352,	
	ECO:0000303 PubMed:15776429, ECO:0000305 PubMed:10200294}.	
Molecular Weight:	17.1 kDa	
UniProt:	Q99732	
Pathways:	Cellular Response to Molecule of Bacterial Origin	
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:	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	
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Application Details

	needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

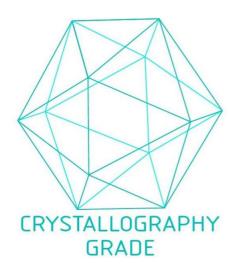


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process