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GEMIN7 Protein (AA 1-131) (Strep Tag)



Image



Overview

Quantity:	1 mg
Target:	GEMIN7
Protein Characteristics:	AA 1-131
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GEMIN7 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)
Product Details	
Sequence:	MQTPVNIPVP VLRLPRGPDG FSRGFAPDGR RAPLRPEVPE IQECPIAQES LESQEQRARA
	ALRERYLRSL LAMVGHQVSF TLHEGVRVAA HFGATDLDVA NFYVSQLQTP IGVQAEALLR
	CSDIISYTFK P
	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.

reported (not tested by us and not guaranteed).

• These proteins are normally active (enzymatically functional) as our customers have

• 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®):
	 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:	GEMIN7
Alternative Name:	GEMIN7 (GEMIN7 Products)
Background:	Gem-associated protein 7 (Gemin-7) (SIP3),FUNCTION: The SMN complex catalyzes the
	assembly of small nuclear ribonucleoproteins (snRNPs), the building blocks of the spliceosome
	and thereby plays an important role in the splicing of cellular pre-mRNAs. Most spliceosomal
	snRNPs contain a common set of Sm proteins SNRPB, SNRPD1, SNRPD2, SNRPD3, SNRPE,
	SNRPF and SNRPG that assemble in a heptameric protein ring on the Sm site of the small
	nuclear RNA to form the core snRNP (Sm core). In the cytosol, the Sm proteins SNRPD1,
	SNRPD2, SNRPE, SNRPF and SNRPG are trapped in an inactive 6S plCln-Sm complex by the
	chaperone CLNS1A that controls the assembly of the core snRNP. To assemble core snRNPs,
	the SMN complex accepts the trapped 5Sm proteins from CLNS1A forming an intermediate.
	Binding of snRNA inside 5Sm triggers eviction of the SMN complex, thereby allowing binding of
	SNRPD3 and SNRPB to complete assembly of the core snRNP.
	{ECO:0000269 PubMed:12065586, ECO:0000269 PubMed:18984161}.
Molecular Weight:	14.5 kDa
UniProt:	Q9H840
Pathways:	Ribonucleoprotein Complex Subunit Organization
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
	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!
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

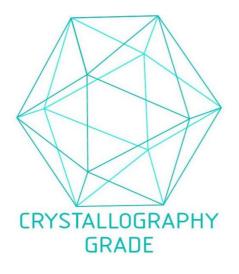


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process