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Datasheet for ABIN3134839

INTU Protein (AA 1-942) (Strep Tag)

Overview

Quantity:	1 mg
Target:	INTU
Protein Characteristics:	AA 1-942
Origin:	Mouse
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This INTU protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MAGLARGDSR GRPPELPGDL SSQEEEEEEG DSDAGASSLG SYSSASSDTD VEPEWLDSVQ KNGELFYLEL SEDEEESLLP ETQTANHVNH VRFSDKEVII EEDDSRERKK SEPKLRRFTK ILKSKSLLPR RHHKKSSSNN GPVSILKHQS SQKTGVTVQQ RYKDVTVYIN PRKLTAIKAR EQVKLLEVLV GIIHQTKRSW KRSKQADGE RLVVHGLLPG GSAMKSGQVL VGDVLVAVND VDVTSENIER VLSCIPGPMQ VKLTFENAYA VKRETAQPQK KKAQSSTQDL VKLLCGSEAD AVQHSTLSIP HISMYLTLQL QSEAAREEQE ILYHYPVSEA SQKLKSVRGI FLTLCDMLES VTGTQVTSSS LHLNGKQIHV AYLKESDKLL LIGLPAEEVP LPQLRNMIED VAQTLKFMYG SLDSAFQCQE NAPRLDHFFS LFFERALRPG KLHLSGSPSA QQYAAASAVL LDNLPGVRWL VLPQELKVEL DTALSDLEAA DFEELSEDYY DMRRLYTILG SSLFYKGYMV CSHLPKDDVI EIAAYCRQHC LLPLAAKQRI GQLIIVREVF PRHHLQPPSD SDPEAFQEPE GRYFLLVVGL RHYLLCVLLE AGGCASKATG NPGPDCIYVD QVRATLHQLE GVDSRIEEQL ATSPGPCLSC ADWFLAAPRE KADSLTTSPI LSRLQGPKT AASPTCRRTF FSDYSFKARK PPSRIGGGGR
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EPTEGEESAG LSPHATPDAV RKQRESEGS DNVALLKLAR KKSTLPNPFH LGTSKKELSE
KELEVYDIMK LTSGPENTLF HYVALETVQG IFITPTHEEV AQLGGSVHSQ LIKNFHQCCL
SIRAFFQRTL KEEKKKALSD GEHSEPTNSV SSLSPVKEHG VLFECSPENW TDQKKTTPVM
SYVWVGRFL NPKPQELYVC FHDSVSEIAI EMAFKLFFGL TL

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 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 in several dilutions and is measured against its specific reference buffer.

Product Details

- We use the Expsy'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®): <ol style="list-style-type: none">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.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.
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)

Target Details

Target:	INTU
Alternative Name:	Intu (INTU Products)
Background:	<p>Protein inturned (Inturned planar cell polarity effector homolog) (PDZ domain-containing protein 6),FUNCTION: Plays a key role in ciliogenesis and embryonic development. Regulator of cilia formation by controlling the organization of the apical actin cytoskeleton and the positioning of the basal bodies at the apical cell surface, which in turn is essential for the normal orientation of elongating ciliary microtubules. Plays a key role in definition of cell polarity via its role in ciliogenesis but not via conversion extension. Has an indirect effect on hedgehog signaling (PubMed:20067783, PubMed:21761479). Proposed to function as core component of the CPLANE (ciliogenesis and planar polarity effectors) complex involved in the recruitment of peripheral IFT-A proteins to basal bodies (By similarity).</p> <p>{ECO:0000250 UniProtKB:Q9ULD6, ECO:0000269 PubMed:20067783, ECO:0000269 PubMed:21761479}.</p>
Molecular Weight:	104.8 kDa
UniProt:	Q059U7

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
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Application Details

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)