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# INTS4 Protein (AA 1-964) (Strep Tag)



### Go to Product page

### Overview

Quantity:	1 mg
Target:	INTS4
Protein Characteristics:	AA 1-964
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This INTS4 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### **Product Details**

Sequence:

MAAHLKKRVY EEFTKVVQQQ QEEIATKKLR LTKPSKSAAL HIDLCKATSP ADALQYLLQF
ARKPVEAESV EGVVRILLEH YYKENDPSVR LKIASLLGLL SKTAGFSPDC IMDDAINILQ
NEKSHQVLAQ LLDTLLAIGS KLPENQATQV RLVDVACKHL TDTSHGVRNK CLQLLGNLGS
LEKSVTKDTE GSAARDVQKI IGDHFSDQDP RVRTAAIKAM LQLHERGLKL HQTIYNQACK
LLSDDYEQVR SAAVQLIWVV SQLYPESIVP IPSSNEEIRL VDDAFGKICH MVSDGSWVVR
VQAAKLLGSM EQVSSHFLEQ TLDKKLMSDL RRKRTAHERA KELYSSGEFS SGRKWGDDAP
KEEIDTGAVN LIESGACGAF VHGLEDEMYE VRIAAVEALC MLAQSSPSFA EKCLDFLVDM
FNDEIEEVRL QSIHTMRKIS NNITLREDQL DTVLAVLEDS SRDIREALHE LLCCTNVSTK
EGIHLALVEL LKNLTKYPTD RDSIWKCLKF LGSRHPTLVL PLVPELLSTH PFFDTAEPDM
DDPAYIAVLV LIFNAAKTCP TMPALFSDHT LRHYAYLRDS LSHLVPALRL PGRKLVSSTV
PSNITPHEDP SQQFLQQSLE RVYSVQHLDP QGAQELLEFT IRDLQRLGEL QSELAGVADF
SATYLQCQLL LIKALQEKLW NVAAPLYLKQ SDLASAAAKQ IMEETYKMEF MYSGVENKQV

VIIQHMRLQA KALQLIVTAR TTRGVDPLFG MCEKFLQEVD FFQRCFIADL PHLQDSFVDK
LLDLMPRLMA SKPVEVIKIL QTMLRQSTFL HLPLPEQIHK ASATIIEPAG ESDNPLRFTS
GLVVALDVDA TLEHVQDPQN TVKVQVLYPD GQAQMIHPKP ADFRNPGPGR HRLLTQVYLS
HTAWTEPCQV EVRLLLAYNS GARIPKSPWL EGSEMSPQVE TSIEGTIPFS KPVKVYIMPK PARR

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®):
	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.
	<ol><li>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.</li></ol>
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:	INTS4
Alternative Name:	Ints4 (INTS4 Products)
Background:	Integrator complex subunit 4 (Int4),FUNCTION: Component of the Integrator (INT) complex, a complex involved in the small nuclear RNAs (snRNA) U1 and U2 transcription and in their 3'-box-dependent processing. The Integrator complex is associated with the C-terminal domain (CTD) of RNA polymerase II largest subunit (POLR2A) and is recruited to the U1 and U2 snRNAs genes. Mediates recruitment of cytoplasmic dynein to the nuclear envelope, probably as component of the INT complex. {ECO:0000250 UniProtKB:Q96HW7}.
Molecular Weight:	108.2 kDa
UniProt:	Q8CIM8
Pathways:	SARS-CoV-2 Protein Interactome
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

## **Application Details**

modifications.

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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)