Datasheet for ABIN3094627

ERVK-11 Protein (AA 1-969) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	ERVK-11
Protein Characteristics:	AA 1-969
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ERVK-11 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	NKSRKRRNRV SFLGAATVEP PKPIPLTWKT EKPVWVNQWP LPKQKLEALH LLANEQLEKG HIEPSFSPWN SPVFVIQKKS GKWRMLTDLR AVNAVIQPMG PLQPGLPSPA MIPKDWPLII IDLKDCFFTI PLAEQDCEKF AFTIPAINNK EPATRFQWKV LPQGMLNSPT ICQTFVGRAL QPVREKFSDC YIIHYIDDIL CAAETKDKLI DCYTFLQAEV ANAGLAIASD KIQTSTPFHY LGMQIENRKI KPQKIEIRKD TLKTLNDFQK LLGDINWIRP TLGIPTYAMS NLFSILRGDS DLNSKRILTP EATKEIKLVE EKIQSAQINR IDPLAPLQLL IFATAHSPTG IIIQNTDLVE WSFLPHSTVK TFTLYLDQIA TLIGQTRLRI IKLCGNDPDK IVVPLTKEQV RQAFINSGAW QIGLANFVGI IDNHYPKTKI FQFLKMTTWI LPKITRREPL ENALTVFTDG SSNGKAAYTG PKERVIKTPY QSAQRAELVA VITVLQDFDQ PINIISDSAY VVQATRDVET ALIKYSMDDQ LNQLFNLLQQ TVRKRNFPFY ITHIRAHTNL PGPLTKANEE ADLLVSSALI KAQELHALTH VNAAGLKNKF DVTWKQAKDI VQHCTQCQVL HLPTQEAGVN PRGLCPNALW QMDVTHVPSF GRLSYVHVTV

DTYSHFIWAT CQTGESTSHV KKHLLSCFAV MGVPEKIKTD NGPGYCSKAF QKFLSQWKIS HTTGIPYNSQ GQAIVERTNR TLKTQLVKQK EGGDSKECTT PQMQLNLALY TLNFLNIYRN QTTTSAEQHL TGKKNSPHEG KLIWWKDNKN KTWEIGKVIT WGRGFACVSP GENQLPVWIP TRHLKFYNEP IGDAKKRAST EMVTPVTWMD NPIEVYVNDS VWVPGPTDDR CPAKPEEEGM MINISIGYRY PPICLGRAPG CLMPTVQNWL VEVPIVSPIC RFTYHMVSGM SLRPRVNYL

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 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.

Product Details

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:	ERVK-11
Alternative Name:	ERVK-11
Background:	Endogenous retrovirus group K member 11 Pol protein (HERV-K_3q27.2 provirus ancestral Pol protein) [Includes: Reverse transcriptase (RT) (EC 2.7.7.49), Ribonuclease H (RNase H) (EC 3.1.26.4), Integrase (IN)],FUNCTION: Early post-infection, the reverse transcriptase converts the viral RNA genome into double-stranded viral DNA. The RNase H domain of the reverse transcriptase performs two functions. It degrades the RNA template and specifically removes the RNA primer from the RNA/DNA hybrid. Following nuclear import, the integrase catalyzes the insertion of the linear, double-stranded viral DNA into the host cell chromosome. Endogenous Pol proteins may have kept, lost or modified their original function during evolution (By similarity). {ECO:0000250}.
Molecular Weight:	109.7 kDa
UniProt:	Q9UQG0

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

Application Details

	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. 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