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Datasheet for ABIN3124937

EIF2A Protein (AA 1-581) (Strep Tag)

Overview

Quantity:	1 mg
Target:	EIF2A
Protein Characteristics:	AA 1-581
Origin:	Mouse
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This EIF2A protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MAPSTPLLTV RGSEGLYMVN GPPHFTESTV LPRESGRNCK VYTFSKDGLT FAWSNGEKVN
IINVANKGLL HSFDLPKAVC LEFSPNNTVL ATWQPYTTSK DGTAGTPNLQ LYDMKTGACL
KSFQKQMKN WCPSWSDDEI ICARNVNNEV HFFENNNFNT IANKLHLQKV NDFNLSPGTQ
PYKVAVYVPG SKGAPSFVRL YQYPNFAGPQ AALANKSFFK ADKVTMLWNK KATAVLVIAS
TEVDKTGASY YGEQTLHYIA TNGESAVVQL PKNGPIYDVV WNSSSTEFCA VYGFMPAKAT
VFNLKCDPVF DFGTGPRNAA FYSPHGHLV LAGFGNLRGQ MEVWDVKVNYK LISKPVASDS
TYFAWC PDGE HILTATCAPR LRVNNGYKIW HYTGSLHLYK DVPSNGELWQ VSWQPFLDGI
FPAKTIKYQA VPSEVPSEEP KVATAYRPPA LRNKPVTNSK LHEEPPQNM KPHPGSDKPL
SKTALKNQRK HEAKKAQKQE ARSDAAPTPV PQSAPRNTVT QSASGDPEVD KKIKNLKKKL
KAIEQLKEQA AAGKQLEKNQ LEKIQKETAL LQELEDLELG V

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.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Purity:

> 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Target Details

Target:	EIF2A
Alternative Name:	Eif2a (EIF2A Products)
Background:	Eukaryotic translation initiation factor 2A (eIF-2A) [Cleaved into: Eukaryotic translation initiation factor 2A, N-terminally processed],FUNCTION: Functions in the early steps of protein synthesis of a small number of specific mRNAs. Acts by directing the binding of methionyl-tRNAi to 40S ribosomal subunits. In contrast to the eIF-2 complex, it binds methionyl-tRNAi to 40S subunits in a codon-dependent manner, whereas the eIF-2 complex binds methionyl-tRNAi to 40S subunits in a GTP-dependent manner. {ECO:0000250 UniProtKB:Q9BY44}.
Molecular Weight:	64.4 kDa
UniProt:	Q8BJW6
Pathways:	Ribonucleoprotein Complex Subunit Organization , ER-Nucleus Signaling , Hepatitis C , Methionine Biosynthetic Process , Ribosome Assembly

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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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,

Handling

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)