

Datasheet for ABIN3092405

ESCO2 Protein (AA 1-601) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	ESCO2
Protein Characteristics:	AA 1-601
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ESCO2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MAALTPRK RK QDSLKCD SLL HFTENLFP SP NKKHCFYQ NS DKNEENLH CS QQEHFVLSAL</p> <p>KTTEINRL PS ANQGSPFK SA LSTVSFY NQN KWYLNPL ERK LIKESRST CL KTND EDKSFP</p> <p>IVTEKMQG KP VCSKKN NK KP QKSLTAK YQP KYRHIKPV SR NSRNSKQNR V IYKPIVEKEN</p> <p>NCHSAENNS N APRVLSQ KIK PQVTLQGG AA FFVRKKSS LR KSSLENEPS L GRTQKSKSEV</p> <p>IEDSDVET VS EKKTFATR QV PKCLVLEE KL KIGLLSASS K NKEKLIKD SS DDRVSSKEHK</p> <p>VDKNEAFS SE DSLGENKT IS PKSTVYPI FS ASSVNSKR SL GEEQFSVG SV NFMKQTNIQK</p> <p>NTNTRDTS KK TKDQLIID AG QKHFGATV CK SCGMIYTAS N PEDEMQHVQH HHRFLEG IKY</p> <p>VGWKKERV VA EFWDGKIV LV LPHDPSFA IK KVEDVQEL VD NELGFQQV VP KCPN KIKTFL</p> <p>FISDEKRV VG CLIAEPIK QA FRVLSEPI GP ESPSSTEC PR AWQCSDVPEP AVCGISRI WV</p> <p>FRLKRRKR IA RRLVDTLR NC FMFGCFL STD EIAFSDPT PD GKLFATKY CN TPNFLVYN FN S</p> <p>Sequence without tag. The proposed Strep-Tag is based on experience s with the expression</p>

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:

> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade:

custom-made

Target Details

Target:	ESCO2
Alternative Name:	ESCO2 (ESCO2 Products)
Background:	<p>N-acetyltransferase ESCO2 (EC 2.3.1.-) (Establishment factor-like protein 2) (EFO2) (EFO2p) (hEFO2) (Establishment of cohesion 1 homolog 2) (ECO1 homolog 2),FUNCTION:</p> <p>Acetyltransferase required for the establishment of sister chromatid cohesion (PubMed:15821733, PubMed:15958495). Couples the processes of cohesion and DNA replication to ensure that only sister chromatids become paired together. In contrast to the structural cohesins, the deposition and establishment factors are required only during the S phase. Acetylates the cohesin component SMC3 (PubMed:21111234).</p> <p>{ECO:0000269 PubMed:15821733, ECO:0000269 PubMed:15958495, ECO:0000269 PubMed:19907496, ECO:0000269 PubMed:21111234}.</p>
Molecular Weight:	68.3 kDa
UniProt:	Q56NI9
Pathways:	Positive Regulation of Endopeptidase Activity

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. 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