

Datasheet for ABIN7561523
EEFSEC Protein (AA 1-583) (His tag)



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Overview

Quantity:	1 mg
Target:	EEFSEC
Protein Characteristics:	AA 1-583
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EEFSEC protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Eefsec Protein expressed in mammalien cells.
Sequence:	MAGRRVNVNV GVLGHIDSGK TALARALSTT ASTAAFQKQP QSRREGITLD LGFSCFVWPL PGAEPGSSDT LLQVTLVDCP GHASLIRTII GGAQIIDLMM LVIDVTKGMQ TQSAECLVIG QIACQKLVVV LNKIDLLAEG KRQAAIDKMT KKMQKTLENT KFRGAPIIPV AAKPGGPEAP ETEAPQGISE LIELLSQIS IPTRDPSGPF LMSVDHCFSI KGQGTVMGT ILSGTISLGD SVEIPALKVV KVKSMQMFH TPVTSAMQGD RLGICVTQFD PKLLERGLVC APESLHTVHA ALISVEKIPY FRGPLQTKAK FHITVGHETV MGRTLFFSPA PDSFDLEPVL DSFDLSREYL FQEYLCKDS MPTATEGDDE ADPKAGHAPG GHCPRQQWAL VEFEKPVTCP RLCLVIGSRL DADIHTNTRC LAFHGVLLQG LEDKNYIESF LPALRVYKHK HKHGLVERVM DDYSVIGRSL FKKETNIQLF VGLKVQLSTG EQGIIDSAFG QSGKFKIHIP GGLSPESKKI LTPTLKKRSR AGRGETTKPE EGTERPEPIQ PVTNLNLSFKR YVFDTQKRMV QTP Sequence without tag. The proposed Purification-Tag is based on experiences 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 to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

EEFSEC

Alternative Name:

Eefsec ([EEFSEC Products](#))

Background:

Selenocysteine-specific elongation factor (EC 3.6.5.-) (Elongation factor sec) (Eukaryotic elongation factor, selenocysteine-tRNA-specific) (mSelB),FUNCTION: Translation factor required for the incorporation of the rare amino acid selenocysteine encoded by UGA codons (PubMed:11265756, PubMed:10970870, PubMed:22992746). Replaces the eRF1-eRF3-GTP ternary complex for the insertion of selenocysteine directed by the UGA codon (PubMed:11265756, PubMed:10970870, PubMed:22992746). Insertion of selenocysteine at UGA codons is mediated by SECISBP2 and EEFSEC: SECISBP2 (1) specifically binds the SECIS sequence once the 80S ribosome encounters an in-frame UGA codon and (2) contacts the RPS27A/eS31 of the 40S ribosome before ribosome stalling (By similarity). (3) GTP-bound EEFSEC then delivers selenocysteinyl-tRNA(Sec) to the 80S ribosome and adopts a preaccommodated state conformation (By similarity). (4) After GTP hydrolysis, EEFSEC

Target Details

dissociates from the assembly, selenocysteinyl-tRNA(Sec) accommodates, and peptide bond synthesis and selenoprotein elongation occur (By similarity). {ECO:0000250|UniProtKB:P57772, ECO:0000269|PubMed:10970870, ECO:0000269|PubMed:11265756, ECO:0000269|PubMed:22992746}.

Molecular Weight: 63.5 kDa

UniProt: [Q9JHW4](#)

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.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months