

Datasheet for ABIN7546042
SECISBP2 Protein (AA 1-854) (His tag)



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Overview

Quantity:	1 mg
Target:	SECISBP2
Protein Characteristics:	AA 1-854
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SECISBP2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SECISBP2 Protein expressed in mammalian cells.
Sequence:	MASEGPPEPE SEGIKLSADV KPFVPRFAGL NVAWLESSEA CVFPSSAATY YPFVQEPPVT EQKIYTEDMA FGASTFPPQY LSSEITLHPY AYSPYTL DST QNVYSVPGSQ YLYNQPSCYR GFQTVKHRNE NTCPLPQEMK ALFKKKTYDE KKTYDQQKFD SERADGTISS EIKSARGSHH LSIYAENSLK SDGYHKRTDR KSRIIAKNVS TSKPEFEFTT LDFPELQGAE NNMSEIQKQP KWGPVHSVST DISLLREVVK PAAVLSKGEI VVKNNPNESV TANAATNSPS CTRELSWTPM GYVVRQTLST ELSAAPKNVT SMINLKTIAS SADPKNVSIP SSEALSSDPS YNKEKHIIHP TQKSKASQGS DLEQNEASRK NKKKKEKSTS KYEVL TVQEP PRIEDAEFFP NLAVASERRD RIETPKFQSK QQPQDNFKNN VKKSQLPVQL DLGGMLTALE KKQHSQHAKQ SSKPVVVS VG AVPVLSKECA SGERGRMSQ MKTPHNPLDS SAPLMKKGKQ REIPKAKKPT SLKKIILKER QERKQRLQEN AVSPAFTSDD TQDGESGGDD QFPEQAELSG PEGMDELIST PSVEDKSEEP PGTELQRDTE ASHLAPNHTT FPKIHSRRFR DYCSQMLSKE VDACVTDLLK ELVRFQDRMY QKDPVKAKTK RRLVGLREV LKHLKLLKLLK CVIISPNCCK IQSKGGLDDT LHTIIDYACE

Product Details

QNIPFVFALN RKALGRSLNK AVPVSVVGIF SYDGAQDQFH KMVELTVAAR QAYKTMLENV
QQELVGEPRP QAPPSLPTQG PSCPAEDGPP ALKEKEEPHY IEIWKKHLEA YSGCTLELEE
SLEASTSQMM NLNL **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.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: SECISBP2

Alternative Name: SECISBP2 ([SECISBP2 Products](#))

Background: Selenocysteine insertion sequence-binding protein 2 (SECIS-binding protein 2),FUNCTION: mRNA-binding protein that binds to the SECIS (selenocysteine insertion sequence) element present in the 3'-UTR of mRNAs encoding selenoproteins and facilitates the incorporation of the rare amino acid selenocysteine (PubMed:35709277). 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

Target Details

RPS27A/eS31 of the 40S ribosome before ribosome stalling (PubMed:35709277). (3) GTP-bound EEFSEC then delivers selenocysteinyl-tRNA(Sec) to the 80S ribosome and adopts a preaccommodated state conformation (PubMed:35709277). (4) After GTP hydrolysis, EEFSEC dissociates from the assembly, selenocysteinyl-tRNA(Sec) accommodates, and peptide bond synthesis and selenoprotein elongation occur (PubMed:35709277).
{ECO:0000269|PubMed:35709277}.

Molecular Weight: 95.5 kDa

UniProt: [Q96T21](#)

Application Details

Application Notes: We expect the protein to work for functional studies. 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