

Datasheet for ABIN3081496

HSF2BP Protein (AA 1-334) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	HSF2BP
Protein Characteristics:	AA 1-334
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HSF2BP protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB)

Product Details

Brand:	AlIcE®
Sequence:	<p>MGEAGAAEEA CRHMGTKKEF VKVRKKDLER LTTEVMQIRD FLPRILNGEV LESFQKLKIV EKNLERKEQE LEQLKMDCEH FKARLETVQA DNIREKKEKL ALRQQLNEAK QQLLQQA EYC TEMGAAACTL LWGVSSSEEV VKAILGGDKA LKFFSITGQT MESFVKSLDG DVQELDSDES QFVFALAGIV TNVAAIACGR EFLVNSSRVL LDTILQLLGD LKPGQCTKLK VLMLMSLYNV SINLKGLKYI SESPFGIPLL WWLLSDPDAE VCLHVLRLVQ SVVLEPEVFS KSASEFRSSL PLQRILAMSK SRNPRLQTAA QELLEDLRTL EHNV</p> <p>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.</p>
Characteristics:	Key Benefits:

Product Details

- 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:	HSF2BP
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Target Details

Alternative Name: HSF2BP ([HSF2BP Products](#))

Background: Heat shock factor 2-binding protein,FUNCTION: Meiotic recombination factor component of recombination bridges involved in meiotic double-strand break repair. Modulates the localization of recombinases DMC1:RAD51 to meiotic double-strand break (DSB) sites through the interaction with BRCA2 and its recruitment during meiotic recombination (By similarity) (PubMed:31242413). Indispensable for the DSB repair, homologous synapsis, and crossover formation that are needed for progression past metaphase I, is essential for spermatogenesis and male fertility (By similarity). Required for proper recombinase recruitment in female meiosis (By similarity). Inhibits BNC1 transcriptional activity during spermatogenesis, probably by sequestering it in the cytoplasm (By similarity). May be involved in modulating HSF2 activation in testis (PubMed:9651507). {ECO:0000250|UniProtKB:Q9D4G2, ECO:0000269|PubMed:31242413, ECO:0000269|PubMed:9651507}.

Molecular Weight: 37.6 kDa

UniProt: [O75031](#)

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.

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Restrictions: For Research Use only

Handling

Format: Liquid

Handling

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