

Datasheet for ABIN3083699  
**MKKS Protein (AA 1-570) (Strep Tag)**



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## Overview

Quantity:	1 mg
Target:	MKKS
Protein Characteristics:	AA 1-570
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MKKS protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Sequence: MSRLEAKKPS LCKSEPLTTE RVRTTLSVLK RIVTSCYGPS GRLKQLHNGF GGYVCTTSQS  
SALLSHLLVT HPILKILTAS IQNHVSSFSD CGLFTAILCC NLIENVQRLG LPTTVIRLN KHLLSLCISY  
LKSETCGCRI PVDFSSTQIL LCLVRSILTS KPACMLTRKE TEHVSALILR AFLLTIPENA EGHILGKSL  
IVPLKGQRVI DSTVLPGILI EMSEVQLMRL LPIKKSTALK VALFCTTSLG DTSDTGEGTV  
VVSYGVSLEN AVLDQLNLNG RQLISDHVDL VLCQKVIHPS LKQFLNMHRI IAIDRIGVTL  
MEPLTKMTGT QPIGSLGSIC PNSYGSVKDV CTAKFGSKHF FHLIPNEATI CSLLLCNRND  
TAWDELKLTC QTALHVLQLT LKEPWALLGG GCTETHLAAY IRHKTHNDPE SILKDDECTQ  
TELQLIAEAF CSALESVVGSL LEHDGGEILT DMKYGHLWSV QADSPCVANW PDLLSQCGCG  
LYNSQEELNW SFLRSTRRPF VPQSCLPHEA VGSASNLTLT CLTAKLSGLQ VAVETANLIL  
DLSYVIEDKN

**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.

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#### 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.

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#### Purification:

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

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#### Purity:

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

## Target Details

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Target:	MKKS
Alternative Name:	MKKS ( <a href="#">MKKS Products</a> )
Background:	<p>Molecular chaperone MKKS (Bardet-Biedl syndrome 6 protein) (McKusick-Kaufman/Bardet-Biedl syndromes putative chaperonin),FUNCTION: Probable molecular chaperone that assists the folding of proteins upon ATP hydrolysis (PubMed:20080638). Plays a role in the assembly of BBSome, a complex involved in ciliogenesis regulating transports vesicles to the cilia (PubMed:20080638). May play a role in protein processing in limb, cardiac and reproductive system development. May play a role in cytokinesis (PubMed:28753627). {ECO:0000269 PubMed:20080638, ECO:0000269 PubMed:28753627}.</p>
Molecular Weight:	62.3 kDa
UniProt:	<a href="#">Q9NPJ1</a>
Pathways:	<a href="#">Sensory Perception of Sound</a>

## Application Details

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Application Notes:	<p>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.</p>
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

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Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request,

## Handling

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please contact us.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: Unlimited (if stored properly)