Datasheet for ABIN3135357

KSR1 Protein (AA 1-873) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	KSR1
Protein Characteristics:	AA 1-873
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KSR1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MDRAALRAAA MGEKKEGGGG GAAADGGAGA AVSRALQQCG QLQKLIDISI GSLRGLRTKC SVSNDLTQQE IRTLEAKLVK YICKQQQSKL SVTPSDRTAE LNSYPRFSDW LYIFNVRPEV VQEIPQELTL DALLEMDEAK AKEMLRRWGA STEECSRLQQ ALTCLRKVTG LGGEHKMDSG WSSTDARDSS LGPPMDMLSS LGRAGASTQG PRSISVSALP ASDSPVPGLS EGLSDSCIPL HTSGRLTPRA LHSFITPPTT PQLRRHAKLK PPRTPPPPSR KVFQLLPSFP TLTRSKSHES QLGNRIDDVT PMKFELPHGS PQLVRRDIGL SVTHRFSTKS WLSQVCNVCQ KSMIFGVKCK HCRLKCHNKC TKEAPACRIT FLPLARLRRT ESVPSDINNP VDRAAEPHFG TLPKALTKKE HPPAMNLDSS SNPSSTTSST PSSPAPFLTS SNPSSATTPP NPSPGQRDSR FSFPDISACS QAAPLSSTAD STRLDDQPKT DVLGVHEAEA EEPEAGKSEA EDDEEDEVDD LPSSRRPWRG PISRKASQTS VYLQEWDIPF EQVELGEPIG QGRWGRVHRG RWHGEVAIRL LEMDGHNQDH LKLFKKEVMN YRQTRHENVV LFMGACMNPP HLAIITSFCK GRTLHSFVRD PKTSLDINKT

RQIAQEIIKG MGYLHAKGIV HKDLKSKNVF YDNGKVVITD FGLFGISGVV REERRENQLK LSHDWLCYLA PEIVREMIPG RDEDQLPFSK AADVYAFGTV WYELQARDWP FKHQPAEALI WQIGSGEGVR RVLASVSLGK EVGEILSACW AFDLQERPSF SLLMDMLERL PKLNRRLSHP GHFWKSADIN SSKVMPRFER FGLGTLESGN PKM

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.

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.

Product Details

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:	KSR1
Alternative Name:	Ksr1 (KSR1 Products)
Background:	Kinase suppressor of Ras 1 (mKSR1) (EC 2.7.11.1) (Protein Hb),FUNCTION: Part of a multiprotein signaling complex which promotes phosphorylation of Raf family members and activation of downstream MAP kinases (PubMed:10409742, PubMed:12932319, PubMed:21102438, PubMed:21441104). Independently of its kinase activity, acts as MAP2K1/MEK1 and MAP2K2/MEK2-dependent allosteric activator of BRAF, upon binding to MAP2K1/MEK1 or MAP2K2/MEK2, dimerizes with BRAF and promotes BRAF-mediated phosphorylation of MAP2K1/MEK1 and/or MAP2K2/MEK2 (By similarity). Promotes activation of MAPK1 and/or MAPK3, both in response to EGF and to cAMP (PubMed:21102438). Its kinase activity is unsure (PubMed:21441104). Some protein kinase activity has been detected in vitro, however the physiological relevance of this activity is unknown (PubMed:21441104). {ECO:0000250|UniProtKB:Q8IVT5, ECO:0000269|PubMed:10409742, ECO:0000269|PubMed:12932319, ECO:0000269|PubMed:21102438, ECO:0000269|PubMed:21441104}.
Molecular Weight:	96.8 kDa
UniProt:	Q61097

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:	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.

Application Details

	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!
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