

Datasheet for ABIN3135100 KSR2 Protein (AA 1-959) (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	KSR2
Protein Characteristics:	AA 1-959
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KSR2 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	<p>MDEENMTKSE EQQPLSLQKA LQQCELVQNM IDLSISNLEG LRTKCAASND LTQKEIRTLK</p> <p>SKLVKYFSRQ LSCKKKVALQ ERNAELDGFP QLRHWFRIVD VRKEVLEEIS PDQLSLEDLL</p> <p>EMTDEQVCET VEKYGANQEE CARLNASLSC LRNVHKSGGN LSKQDWIIQW PTTEPGQESN</p> <p>PVCPPEPSPW IRT HLSQSPR VQTKCPQHFC PTSPTPGTPV YTQVDRLTVD AYPNLCPPPP</p> <p>PLESGHRSPL PSPRQRHVVR TPPRTPNIVT TVTPPGTPPM RRKNKLKPPG TPPPSSRKLI</p> <p>HLIPGFTALH RSKSHEFQLG NRVDEANTPK AKKSKPLNL KIHSGVGSCE NIPAAQQRSL</p> <p>LSERSLRSFF VGHGPFLPST PPVHTEANFS ANTLSVPRWS PQIPRRDLGN SIKHRFSTKY</p> <p>WMSQTCTVCG KGMLFGLKCK NCKLKCHNKC TKEAPPCHLL IIHRGDSLCC FYPTDPARLV</p> <p>RTESVPCDIN NPVRKPARYS DLHISQTLPK TNKINKDHIP VPYQPDSSSN PSSTTSSTPS</p> <p>SPAPPLPPSA TPPSPLHPSP QCPRQKKNFN LPASHYYKYK QQFIFPDVVP VPETPTRAPQ</p> <p>VILHPVTSNT ILEGNPLLQI EVEPTSENEE SHNEAEESD EFEEMNLSLL SARSFPRKAS</p> <p>QTSIFLQEQWD IPFEQLEIGE LIGKGRFGQV YHGRWHGEVA IRLIDIERDN EDQLKAFKRE</p>
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VMAYRQTRHE NVVLFMGACM SPPHLAITS LCKGRTLYSV VRDAKIVLDV NKTRQIAQEI
VKGMGYLHAK GILHKDLKSK NVFYDNGKVV ITDFGLFSIS GVLQAGRRDD KLRIQNGWLC
HLAPEIRQL SPDTEEDKLP FSKHSDVFAL GTIWYELHAR EWPFKTQPAE AIIWQMGTGM
KPNSLSQIGMG KEISDILLFC WAFEQEERPT FTKLMDMLEK LPKRNRRLSH PGHFWKSAE

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Ksr2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Product Details

Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	KSR2
Alternative Name:	Ksr2 (KSR2 Products)
Background:	Location-regulated scaffold connecting MEK to RAF. Has very low protein kinase activity and can phosphorylate MAP2K1 at several Ser and Thr residues with very low efficiency (in vitro). Interaction with BRAF enhances KSR2-mediated phosphorylation of MAP2K1 (in vitro). Blocks MAP3K8 kinase activity and MAP3K8-mediated signaling. Acts as a negative regulator of MAP3K3-mediated activation of ERK, JNK and NF-kappa-B pathways, inhibiting MAP3K3-mediated interleukin-8 production (By similarity). {ECO:0000250}.
Molecular Weight:	109.5 kDa Including tag.
UniProt:	Q3UVC0

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:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C

Handling

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process