

Datasheet for ABIN7554371
KSR2 Protein (AA 1-950) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	KSR2
Protein Characteristics:	AA 1-950
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KSR2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant KSR2 Protein expressed in mammalian cells.
Sequence:	MDEENMTKSE EQQPLSLQKA LQQCELVQNM IDLSISNLEG LRTKCATSND LTQKEIRTLE SKLVKYFSRQ LSCKKKVALQ ERNAELDGFP QLRHWFRIVD VRKEVLEEIS PGQLSLEDLL EMTDEQVCET VEKYGANREE CARLNASLSC LRNVHMSSGN LSKQDWTIQW PTTETGKENN PVCPPPEPTPW IRTHLSQSPR VPSKCVQHYC HTSPTPGAPV YTHVDRLTVD AYPGLCPPPP LESGHRSLPP SPRQRHAVRT PPRTPNIVTT VTPPGTPPMR KKNKLPKPGT PPPSSRKLIIH LIPGFTALHR SKSHEFQLGH RVDEAHTPKA KKKSKPLNLK IHSSVGSCEN IPSQQRSPLL SERSLRSFFV GHAPFLPSTP PVHTEANFSA NTLSPVRWSP QIPRRDLGNS IKHRFSTKYW MSQTCTVCGK GMLFGLKCKN CKLKCHNKCT KEAPPCHLLI IHRGDPARLV RTESVPCDIN NPLRKPPRYS DLHISQTLPK TNKINKDHIP VPYQPDSSSN PSSTTSSTPS SPAPLPSPA TPPSPLHPSP QCTRQQKNFN LPASHYYKYK QQFIFPDVVP VPETPTRAPQ VILHPVTSNP ILEGNPLLQI EVEPTSENEE VHDEAESEED DFEEMNLSLL SARSPRKAS QTSIFLQEWD IPFEQLEIGE LIGKGRFGQV YHGRWHGEVA IRLIDIERDN EDQLKAFKRE VMAYRQTRHE

Product Details

NVVLFMGACM SPPHLAIITS LCKGRTLYSV VRDAKIVLDV NKTRQIAQEI VKGMGYLHAK
GILHKDLKSK NVFYDNGKVV ITDFGLFSIS GVLQAGRRED KLRIQNGWLC HLAPEIIRQL
SPDTEEDKLP FSKHSDVFAL GTIWYELHAR EWPFKTQPAE AIIWQMGTGM KPNLSQIGMG
KEISDILLFC WAFEQEERPT FTKLMDMLEK LPKRNRRLSH PGHFWKSAEL **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: KSR2

Alternative Name: KSR2 ([KSR2 Products](#))

Background: Kinase suppressor of Ras 2 (hKSR2) (EC 2.7.11.1),FUNCTION: 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). Acts as MAP2K1/MEK1-dependent allosteric activator of BRAF, upon binding to MAP2K1/MEK1, dimerizes with BRAF

Target Details

and promotes BRAF-mediated phosphorylation of MAP2K1/MEK1 (PubMed:29433126). 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. {ECO:0000269|PubMed:12975377, ECO:0000269|PubMed:16039990, ECO:0000269|PubMed:21441910, ECO:0000269|PubMed:29433126}.

Molecular Weight: 107.6 kDa

UniProt: [Q6VAB6](#)

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