

## Recombinant Human KSR1 (A635F), GST-tagged

**Cat. No.** KSR1-62H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human KSR1 (A635F) (431-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>    | 431-end a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | KSR1 or Kinase Suppressor of Ras 1 interacts with various kinases of the Raf/MEK/extracellular signal-regulated kinase pathway to enhance its activation. KSR1 is regulated in response to a specific mode of dimerization of its kinase domain, which is termed the side-to-side dimer, whereas KSR1 also participates in forming side-to-side heterodimers with RAF and this can trigger RAF activation. KSR1 has an essential protective role in the intestinal epithelial cell during inflammation through activation of cell survival pathways. KSR1 functions as a scaffold that enhances iNOS activity and is crucial for the pulmonary response to P. aeruginosa infection. |
| <b>Form</b>             | 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b>   | ~66 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Applications</b>     | Kinase Assay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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**Storage**

Store product at –70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

**GENE INFORMATION**
**Gene Name**

KSR1 kinase suppressor of ras 1 [ Homo sapiens ]

**Official Symbol**

KSR1

**Synonyms**

KSR1; kinase suppressor of ras 1; kinase suppressor of ras , KSR; kinase suppressor of Ras 1; RSU2; KSR;

**Gene ID**

8844

**mRNA Refseq**

NM\_014238

**Protein Refseq**

NP\_055053

**MIM**

601132

**UniProt ID**

Q8IVT5

**Chromosome  
Location**

17p11.1

**Pathway**

Ceramide signaling pathway, organism-specific biosystem; ErbB1 downstream signaling, organism-specific biosystem; Tuberculosis, organism-specific biosystem; Tuberculosis, conserved biosystem;

**Function**

ATP binding; metal ion binding; protein binding; protein kinase activity; protein

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serine/threonine kinase activity; transferase activity, transferring phosphorus-containing groups;

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