Recombinant Human KSR1 (A635F), GST-tagged

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

SPECIFICATION

Product Overview	Recombinant human KSR1 (A635F) (431-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	431-end a.a.
Description	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.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~66 kDa
Applications	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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