

## Active Recombinant Human KSR2, GST-tagged

Cat. No. KSR2-82H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human KSR2 (554-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>    | 554-end a.a.                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | KSR2 or kinase suppressor of Ras 2 specifically regulates the activity of MEKK3 and COT but not other members of the MAP3K family. KSR interacts with a regulatory Raf molecule in cis to induce a conformational switch of MEK, facilitating MEK's phosphorylation by a separate catalytic Raf molecule in trans. |
| <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>Bio-activity</b>     | The specific activity was determined to be 150 nmol/min/mg                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | ~72 kDa                                                                                                                                                                                                                                                                                                            |
| <b>Purity</b>           | >70% by densitometry.                                                                                                                                                                                                                                                                                              |
| <b>Applications</b>     | Kinase Assay, Western Blot                                                                                                                                                                                                                                                                                         |

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| <b>Storage</b>             | 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. |
| <b>Concentration</b>       | 0.1 µg/µl                                                                                                                                                                                                                               |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                         |
| <b>Gene Name</b>           | <a href="#">KSR2 kinase suppressor of ras 2 [ Homo sapiens ]</a>                                                                                                                                                                        |
| <b>Official Symbol</b>     | KSR2                                                                                                                                                                                                                                    |
| <b>Synonyms</b>            | KSR2; kinase suppressor of ras 2; kinase suppressor of Ras 2; FLJ25965;                                                                                                                                                                 |
| <b>Gene ID</b>             | <a href="#">283455</a>                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>         | <a href="#">NM_173598</a>                                                                                                                                                                                                               |
| <b>Protein Refseq</b>      | <a href="#">NP_775869</a>                                                                                                                                                                                                               |
| <b>MIM</b>                 | <a href="#">610737</a>                                                                                                                                                                                                                  |
| <b>UniProt ID</b>          | <a href="#">Q6VAB6</a>                                                                                                                                                                                                                  |
| <b>Chromosome Location</b> | 12q24.22-q24.23                                                                                                                                                                                                                         |
| <b>Function</b>            | ATP binding; metal ion binding; protein serine/threonine kinase activity; transferase activity, transferring phosphorus-containing groups;                                                                                              |