# RSK1, GST-tag Recombinant

Catalog: 40172
Lot: 230329

## Product Information

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|---|---|
| **Description:** | Recombinant full-length human RSK1 was expressed in Sf9 insect sells using an N-terminal GST-tag. |
| **Species:** | Human |
| **Construct:** | RSK1 (GST-Full Length) |
| **Concentration:** | 0.10 mg/ml |
| **Expression System:** | Sf9 |
| **Purity:** | ≥90% |
| **Format:** | Aqueous buffer solution. |
| **Formulated In:** | 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM Glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol |
| **MW:** | 108 kDa |
| **Genbank Accession:** | NM_002953 |
| **Stability:** | At least 6 months at -80°C. |
| **Storage:** | -80°C |
| **Instructions for Use:** | Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles. |
| **Specific Activity:** | 210 pmol/min/µg |
| **Assay Conditions:** | Kinase activity was measured using an S6K synthetic peptide substrate (KRRRLASLR) diluted in distilled water at 1.0 mg/ml.<br>The protein kinase was diluted in a buffer containing 5 mM MOPS, pH 7.2, 2.5 mM β-glycero-phosphate, 5 mM $MgCl_2$, 1 mM EGTA, 0.4 mM EDTA, 50 ng/µl BSA (Bovine Serum Albumin) and 0.05 mM fresh DTT.<br>Samples were prepared with 10 µl of diluted protein, 5 µl of substrate (1 mg/ml), and 5 µl of distilled water. The blank was determined from a "no substrate" sample. The reaction was initiated by addition of 5 µl of an ATP mix containing 1 mCi [33P]-ATP and 0.25 mM ATP, prepared in 6 ml of buffer: 25 mM MOPS, pH 7.2, 12.5 mM β-glycero-phosphate, 25 mM $MgCl_2$, 5 mM EGTA, 2 mM EDTA and 0.25 mM fresh DTT.<br>Samples were incubated for 15 minutes at 30°C, and the reaction was terminated by spotting 20 µl of the samples onto P81 phosphocellulose paper strips that were fixed in 1% phosphoric acid and washed three times. Radioactivity was determined using a scintillation counter. |
| **Applications:** | Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling. |

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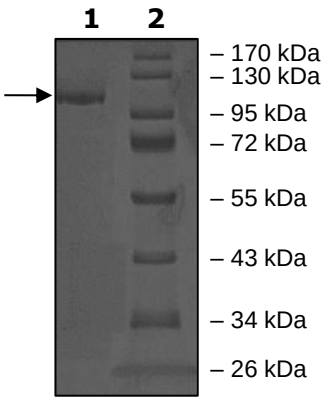
## Quality Control Data

### 4-20% SDS-PAGE Coomassie Staining




### Specific Activity