# Recombinant Human V-Ha-Ras Harvey Rat Sarcoma Viral Oncogene Homolog, GST-tagged

**Cat. No.** HRAS-1025H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant full-length human RAS was expressed in E. coli cells using a N-terminal GST tag. |
| **Species** | Human |
| **Source** | E.coli |
| **Description** | The RAS gene superfamily encodes a group of closely related 21,000 dalton (p21) proteins with special affinity for guanine nucleotides (GTP). RAS and several other cellular proteins with similar biochemical properties are collectively known as G-proteins and they play key roles in a wide variety of cellular activities, including cell growth, differentiation, secretion, and protein trafficking. |
| **Applications** | Kinase Assay; Western Blot |
| **Molecular Weight** | 47 kDa |
| **Expression System** | E. coli |
| **Form** | Recombinant protein stored in 50 mM Tris-HCl, PH 7.5, 150 mM NaCl, 0.1 mM EGTA, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol. |
| **Purity** | >90% |

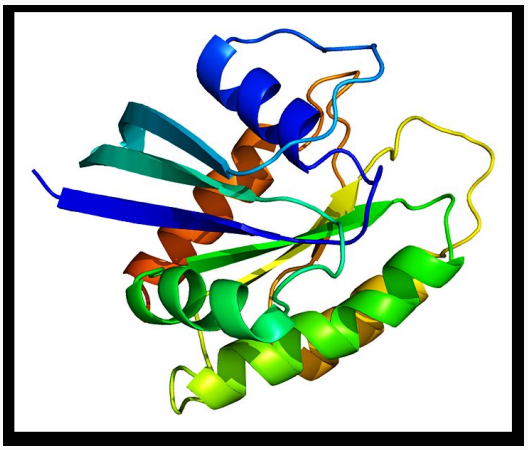
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| **Concentration** | 0.2 ug/ul |
| **Sequences** | Full-length |
| **Storage** | Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |
| **Pathways** | ARMS-mediated activation; Activation of NMDA receptor upon glutamate binding and postsynaptic events; Acute myeloid leukemia; Axon guidance; B cell receptor signaling pathway; BCR signaling pathway; Bladder cancer; CDC42 signaling events; Chemokine signaling pathway; Cholinergic synapse; Down-stream signal transduction; Down-stream signal transduction; EGFR1 Signaling Pathway; Endocytosis; Endocytosis |

## GENE INFORMATION

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| **Gene Name** | HRAS v-Ha-ras Harvey rat sarcoma viral oncogene homolog [ Homo sapiens ] |
| **Official Symbol** | HRAS |
| **Synonyms** | HRAS; v-Ha-ras Harvey rat sarcoma viral oncogene homolog; CTLO; HAMSV; HRAS1; K-RAS; N-RAS; RASH1; C-H-RAS; H-RASIDX; C-BAS/HAS; C-HA-RAS1; GTPase HRas; ha-Ras; p21ras; H-Ras-1; OTTHUMP00000162769; OTTHUMP00000166053; OTTHUMP00000166055; OTTHUMP00000166056; p19 H-RasIDX protein; c-has/bas p21 protein; transforming protein p21; Ha-Ras1 proto-oncoprotein; c-ras-Ki-2 activated oncogene; GTP-and GDP-binding peptide B; transformation gene: oncogene HAMSV; Ras family small GTP binding protein H-Ras |
| **Gene ID** | 3265 |

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| **mRNA Refseq** | NM_005343 |
| **Protein Refseq** | NP_005334 |
| **MIM** | 190020 |
| **UniProt ID** | P01112 |
| **Chromosome Location** | 11p15 |
| **Function** | GTPase activity; GTPase activity; Ral guanyl-nucleotide exchange factor activity; nucleotide binding; protein C-terminus binding; protein binding |
| **PDB renderingbased on 121p.** |  |

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