

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

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human RAS was expressed in E. coli cells using a N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Applications</b>	Kinase Assay; Western Blot
<b>Molecular Weight</b>	47 kDa
<b>Expression System</b>	E. coli
<b>Form</b>	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.
<b>Purity</b>	>90%

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<b>Concentration</b>	0.2 ug/ul
<b>Sequences</b>	Full-length
<b>Storage</b>	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.
<b>Pathways</b>	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

<b>Gene Name</b>	HRAS v-Ha-ras Harvey rat sarcoma viral oncogene homolog [ Homo sapiens ]
<b>Official Symbol</b>	HRAS
<b>Synonyms</b>	HRAS; v-Ha-ras Harvey rat sarcoma viral oncogene homolog; CTLO; HAMSVM; 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 HAMSVM; Ras family small GTP binding protein H-Ras
<b>Gene ID</b>	3265

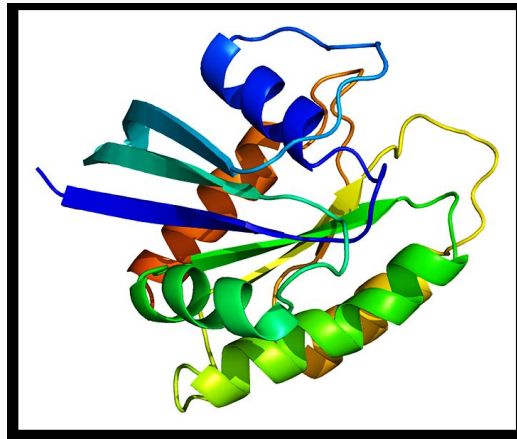
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<b>mRNA Refseq</b>	NM_005343
<b>Protein Refseq</b>	NP_005334
<b>MIM</b>	190020
<b>UniProt ID</b>	P01112
<b>Chromosome Location</b>	11p15
<b>Function</b>	GTPase activity; GTPase activity; Ral guanyl-nucleotide exchange factor activity; nucleotide binding; protein C-terminus binding; protein binding

PDB rendering based on 121p.



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