

## Recombinant Human HRAS, His-tagged

Cat. No. HRAS-589H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant human HRAS protein fused to His-tag was expressed in *E. coli* and purified by using conventional chromatography techniques. MW = 22.0 kDa (194aa).

**Species** Human

**Source** E.coli

**Description** HRAS, also known as GTPase HRas, belongs to the Ras family which function in signal transduction pathways. This protein can bind GTP and GDP, and it has intrinsic GTPase activity. HRAS undergoes a continuous cycle of de- and re-palmitoylation, which regulates its rapid exchange between the plasma membrane and the Golgi apparatus. It also may play a role in regulating the kinetics of signaling in the phototransduction cascade. Defects in HRAS are implicated in a variety of cancers, including bladder cancer, follicular thyroid cancer, and oral squamous cell carcinoma.

**Form** Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol 0.1M NaCl.

**Purity** > 90% by SDS - PAGE.

**Concentration** 0.5 mg/ml (determined by Bradford assay).

**Sequences Of Amino Acids**  
MTEYKLVVVG AGGVGKSALT IQLIQNHFVD EYDPTIEDSY RKQVVIDGET  
CLLDILDTAG QEEYSAMRDQ YMRTGEGFLC VFAINNTKSFEDIHQYREQI  
KRVKDSDDVP MVLVGNKCDL AARTVESRQA QDLARSYGIP YIETSAKTRQ  
GVEDAFYTLV REIRQHKLKRLNPPDESGPGCMSCKCLEHH HHHH.

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**Storage** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

## GENE INFORMATION

**Gene Name** [HRAS v-Ha-ras Harvey rat sarcoma viral oncogene homolog \[ Homo sapiens \]](#)

**Synonyms** 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; HRAS; GTPase HRas; OTTHUMP00000162769; OTTHUMP00000166053; OTTHUMP00000166055; 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; H-Ras-1; Ha-Ras; c-H-ras; p21ras

**Gene ID** [3265](#)

**mRNA Refseq** [NM\\_001130442](#)

**Protein Refseq** [NP\\_001123914](#)

**MIM** [190020](#)

**UniProt ID** [P01112](#)

**Chromosome Location** 11p15.5

**Pathway** Acute myeloid leukemia; Axon guidance; B cell receptor signaling pathway; Bladder cancer; Chemokine signaling pathway; Chronic myeloid leukemia; Endocytosis; Endometrial cancer; ErbB signaling pathway; Fc epsilon RI signaling pathway; Focal

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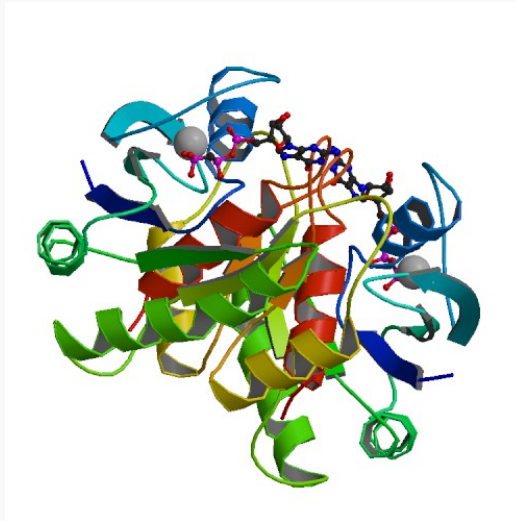
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adhesion; Gap junction; Glioma; GnRH signaling pathway; Insulin signaling pathway; Long-term depression; Long-term potentiation MAPK signaling pathway; Melanogenesis; Melanoma; Natural killer cell mediated cytotoxicity; Neurotrophin signaling pathway; Non-small cell lung cancer; Pathways in cancer; Prostate cancer; Regulation of actin cytoskeleton; Renal cell carcinoma; T cell receptor signaling pathway; Thyroid cancer; Tight junction; VEGF signaling pathway

**Function**

GTP binding; GTPase activity; nucleotide binding; protein C-terminus binding

PDB rendering based  
on 121p.



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