

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 <i>E. coli</i> 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 REIRQHKLRLK LNPPDESGPGCMSCKCLEHH 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; HAMSV; 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 HAMSV; 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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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.

