Recombinant Human HRAS(G12V), His-tagged

Cat. No. HRAS-228H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RAS1 (2-186, G12V) was expressed in E.coli cells using an N-terminal His tag. The HRAS1(G12V) mutant is constitutively active.
Species	Human
Source	E.coli
ProteinLength	2-186 a.a.
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. There are three forms of RAS gene in cells termed H-RAS, N-RAS, and K-RAS. RAS proteins play a direct causal role in human cancer and in other diseases. Mutant H-RAS, N-RAS, and K-RAS occur in varying frequencies in different tumor types. Other members of the RAS superfamily may also contribute to cancer.
Form	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Molecular Mass	~23 kDa
Purity	>95% by densitometry

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Applications	Western Blot
Storage	Store product at –70 centigrade. 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.
Concentration	0.1 μg/μl

GENE INFORMATION

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; HRAS1; GTPase HRas; p21ras; H-Ras-1; 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; CTLO; HAMSV; K-RAS; N-RAS; RASH1; C-H-RAS; H-RASIDX; C-BAS/HAS; C-HA-RAS1;
Gene ID	3265
mRNA Refseq	NM_001130442
Protein Refseq	NP_001123914
MIM	190020
UniProt ID	P01112

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Chromosome Location	11p15.5
Pathway	ARMS-mediated activation, organism-specific biosystem; Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem; Activation of RAS in B Cells, organism-specific biosystem; Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Adaptive Immune System, organism-specific biosystem; Axon guidance, organism-specific biosystem;
Function	GTP binding; GTPase activity; nucleotide binding; protein C-terminus binding; protein binding;

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