

## Recombinant Human HRAS Protein

Cat. No. HRAS-2135H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant wild-type human HRAS protein without tag was expressed in E. coli.

**Species** Human

**Source** E.coli

**Description**

This gene belongs to the Ras oncogene family, whose members are related to the transforming genes of mammalian sarcoma retroviruses. The products encoded by these genes function in signal transduction pathways. These proteins can bind GTP and GDP, and they have intrinsic GTPase activity. This protein undergoes a continuous cycle of de- and re-palmitoylation, which regulates its rapid exchange between the plasma membrane and the Golgi apparatus. Mutations in this gene cause Costello syndrome, a disease characterized by increased growth at the prenatal stage, growth deficiency at the postnatal stage, predisposition to tumor formation, cognitive disability, skin and musculoskeletal abnormalities, distinctive facial appearance and cardiovascular abnormalities. Defects in this gene are implicated in a variety of cancers, including bladder cancer, follicular thyroid cancer, and oral squamous cell carcinoma. Multiple transcript variants, which encode different isoforms, have been identified for this gene.

**Form** Liquid

**Purity** ≥ 95% (SDS-PAGE)

**Storage** At -80 centigrade.

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<b>Storage Buffer</b>	In 20mM TRIS-HCl, pH 8.0, containing 45mM sodium chloride, 1mM DTT, 5mM magnesium chloride and 50% glycerol.
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<b>Shipping</b>	Dry Ice
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## GENE INFORMATION

<b>Gene Name</b>	HRAS HRas proto-oncogene, GTPase [ Homo sapiens (human) ]
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<b>Official Symbol</b>	HRAS
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<b>Synonyms</b>	HRAS; HRas proto-oncogene, GTPase; CTLO; HAMSVM; HRAS1; RASH1; p21ras; C-H-RAS; H-RASIDX; C-BAS/HAS; C-HA-RAS1; GTPase HRas; GTP- and GDP-binding peptide B; Ha-Ras1 proto-oncoprotein; Harvey rat sarcoma viral oncogene homolog; Harvey rat sarcoma viral oncoprotein; Ras family small GTP binding protein H-Ras; c-has/bas p21 protein; p19 H-RasIDX protein; transformation gene: oncogene HAMSVM; transforming protein p21; v-Ha-ras Harvey rat sarcoma viral oncogene homolog; EC 3.6.5.2
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<b>Gene ID</b>	3265
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<b>mRNA Refseq</b>	NM_176795
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<b>Protein Refseq</b>	NP_789765
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<b>MIM</b>	190020
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<b>UniProt ID</b>	P01112
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<b>SDS-PAGE Analysis</b>	Lane 1: MW Marker, Lane 2: 1
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µg, Lane 3: 2 µg, Lane 4: 5 µg Ras.

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