

# Recombinant Human Neuroblastoma RAS Viral (v-ras) Oncogene Homolog

**Cat. No.** NRAS-1279H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinanthuman NRAS is Expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	NRAS proteins are members of the superfamily of small GTP binding proteins that function as molecular switches controlling a variety of signalling and transport pathways. NRAS is one of the classic human Ras proteins (H-, N-, K-Ras4A, and K-Ras4B). NRASdeltaC comprises the first 167 residues of Ras that are sufficient for binding guanine nucleotides and hydrolysis of GTP, but lacks the C-terminal CaaX motif necessary for membrane localization of Ras. Protein preparation is 100% GDP-loaded, measured by HPLC.
<b>Form</b>	Liquid solution in 64 mM Tris-HCl Buffer, pH 7.2, + 10 Mm MgCl <sub>2</sub> + 5 mM DTE.
<b>Purity</b>	> 95% as determined by SDS-PAGE analysis
<b>Applications</b>	In vitro transcription assays; DNA-protein interaction assays; Protein-protein interaction assays.
<b>storage</b>	Store at -80°C. Stable for 1 year. For long term storage, aliquot and freeze at -80°C. Avoid repeated freeze-thaw cycles.

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<b>OfficialSymbol</b>	NRAS
<b>Pathways</b>	Acute myeloid leukemia; Axonguidance; B cell receptor signaling pathway; Bladder cancer; Chemokinesignaling pathway; Chronic myeloid leukemia; Endometrial cancer; ErbBsignaling pathway; Fc epsilon RI signaling pathway; 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; Regulationof actin cytoskeleton; Renal cell carcinoma; T cell receptor signalingpathway; Thyroid cancer; Tight junction; VEGF signaling pathway
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	NRAS neuroblastoma RAS viral(v-ras) oncogene homolog [ Homo sapiens ]
<b>Synonyms</b>	NRAS; neuroblastoma RAS viral(v-ras) oncogene homolog; NS6; ALPS4; N-ras; NRAS1; GTPase NRas; N-rasprotein part 4; transforming protein N-Ras; v-ras neuroblastoma RAS viral oncogene homolog; N-ras; Transforming protein N-Ras
<b>Gene ID</b>	4893
<b>mRNA Refseq</b>	NM_002524
<b>Protein Refseq</b>	NP_002515
<b>MIM</b>	164790
<b>UniProt ID</b>	P01111
<b>Chromosome</b>	1p13.2

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**Location**

**Function**

GTP binding; GTPase activity;nucleotide binding; protein binding

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