

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

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

SPECIFICATION

Product Overview	Recombinanthuman NRAS is Expressed in E. coli.
Species	Human
Source	E.coli
Description	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.
Form	Liquid solution in 64 mM Tris-HCl Buffer, pH 7.2, + 10 mM MgCl ₂ + 5 mM DTE.
Purity	> 95% as determined by SDS-PAGE analysis
Applications	In vitro transcription assays; DNA-protein interaction assays; Protein-protein interaction assays.
storage	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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OfficialSymbol	NRAS
Pathways	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
GENE INFORMATION	
Gene Name	NRAS neuroblastoma RAS viral(v-ras) oncogene homolog [Homo sapiens]
Synonyms	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 viraloncogene homolog; N-ras; Transforming protein N-Ras
Gene ID	4893
mRNA Refseq	NM_002524
Protein Refseq	NP_002515
MIM	164790
UniProt ID	P01111
Chromosome	1p13.2

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Location**Function**

GTP binding; GTPase activity;nucleotide binding; protein binding

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