



# Recombinant Protein Technical Manual

## Recombinant Human NRAS Protein (His Tag)

RPES3857

### Product Data:

**Product SKU:** RPES3857

**Size:** 20µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P01111

### Protein Information:

**Molecular Mass:** 23 kDa

**AP Molecular Mass:** 24 kDa

**Tag:** N-His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** Please contact us for more information.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from sterile 20mM Tris, 0.1M NaCl, 10% Glycerol, pH 7.5

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** ALPS4;CMNS;N-ras;NCMS;NRAS1;NS6

## Immunogen Information:

**Sequence:** Met 1-Cys186

## Background:

NRAS was discovered by researchers at the Institute of Cancer Research, funded by the Cancer Research Campaign (now Cancer Research UK). NRAS gene is a member of the Ras gene family. It is mapped on chromosome 1, and it is activated in HL60, a promyelocytic leukemia line. The mammalian ras gene family consists of the harvey and kirsten ras genes (HRAS and KRAS), an inactive pseudogene of each (c-Hras2 and c-Kras1) and the N-ras gene. They differ significantly only in the C-terminal 40 amino acids. These ras genes have GTP/GDP binding and GTPase activity, and their normal function may be as G-like regulatory proteins involved in the normal control of cell growth. The NRAS gene specifies two main transcripts of 2Kb and 4.3Kb. The difference between the two transcripts is a simple extension through the termination site of the 2Kb transcript. The NRAS gene consists of seven exons (-I, I, II, III, IV, V, VI).