

**H-Ras ΔC (S17N)**

Harvey rat sarcoma viral oncogene homolog, residues 1-166  
human, recombinant, *E. coli*

Cat. No.	Amount
PR-202	50 µg

**For general laboratory use.**

**Shipping:** shipped on dry ice

**Storage Conditions:** store at -80 °C

**Additional Storage Conditions:** avoid freeze/thaw cycles

**Shelf Life:** 12 months

**Molecular Weight:** 19.5 kDa (171 amino acids)

**Accession number:** NP\_005334

**Purity:** > 90 % (SDS-PAGE)

**Form:** liquid (Supplied in 64 mM Tris-HCl pH 7.2, 10 mM MgCl<sub>2</sub> and 5 mM DTE)

**Description:**

Ras proteins are members of the superfamily of small GTP-binding proteins that function as molecular switches controlling a variety of signaling and transport pathways. H-Ras is one of the classic human Ras proteins (H-, N-, K-Ras4A, and K-Ras4B). H-Ras ΔC (aa 1 - 171) lacks the C-terminus with the CaaX recognition sequence necessary for anchoring Ras into the plasma membrane. The mutation S17N results in a 40-fold increase in the affinity for GTP without affecting its affinity for GDP. Protein preparation is 95% GDP- and 5% GTP-loaded, measured by HPLC.

**Selected References:**

Nassar *et al.* (2010) Structure of the Dominant Negative S17N Mutant of Ras. *Biochemistry* **49**:1970.

Sasazuki *et al.* (2005) Transformation by Oncogenic RAS Sensitizes Human Colon Cells to TRAIL-induced Apoptosis by Up-regulating Death Receptor 4 and Death Receptor 5 through a MEK-dependent Pathway. *J Biol. Chem.* **280**:22856.

Wittinghofer *et al.* (2000) Ras - a molecular switch involved in tumor formation. *Angew. Chem. Int. Ed.* **39**:4192.

Feig *et al.* (1988) Inhibition of NIH 3T3 cell proliferation by a mutant ras protein with preferential affinity for GDP. *Mol. Cell. Biol.* **8**:3235.