

**Ran - T24N**

Ras-related nuclear protein, TC4  
human, recombinant, *E. coli*

| Cat. No. | Amount |
|----------|--------|
| PR-212   | 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:** 24.0 kDa (216 amino acids)

**Accession number:** NM\_006325

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

**Form:** liquid (Supplied in 20 mM KH<sub>2</sub>PO<sub>4</sub>/K<sub>2</sub>HPO<sub>4</sub> pH 7.0, 6.5 mM DTE, 150 mM KCl, 5 mM MgCl<sub>2</sub> and 10% glycerol)

**Description:**

Ran (Ras-related nuclear protein, TC4) belongs to the superfamily of GTP binding proteins. It acts in cellular processes such as nuclear transport, mitotic spindle assembly, and post-mitotic nuclear assembly. The mutation T24N results in no or little binding to GTP and is known to act as a negative inhibitor of nuclear import. Protein preparation is 18% GDP-loaded, measured by HPLC.

**Selected References:**

Dasso (2002) The Ran GTPase: Theme and Variations. *Current Biology* **12**:502.

Renault *et al.* (2001) Structural Basis for Guanine Nucleotide Exchange on Ran by the regulator of Chromosome Condensation (RCC1). *Cell* **105**:245.

Sekimoto *et al.* (1996) Interferon-gamma-dependent nuclear import of Stat1 is mediated by the GTPase activity of Ran/TC4 *J. Biol. Chem.* **271**:31017.