

**Ran - E70A**

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

Cat. No.	Amount
PR-215	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 KH₂PO₄/K₂HPO₄ pH 7.4, 1 mM DTE and 5 mM MgCl₂)

Description:

Ran (Ras-related nuclear protein, TC4) belongs to the Ras superfamily of GTP binding proteins. It acts in cellular processes such as nuclear transport, mitotic spindle assembly, and post-mitotic nuclear assembly. The mutation E70A results in inhibition of the guanine exchange reaction mediated by RCC1, the guanine nucleotide exchange factor (GEF) for Ran. Protein preparation is 85% 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.