

Recombinant Chicken GTP-Binding Nuclear Protein Ran (RAN)

Cat. No.: AP4C609

Product Type: Animal Proteins

Size: 10 µg; 50 µg; 200 µg; 1 mg; 5 mg

Product Overview

BioVenic's Recombinant Chicken GTP-Binding Nuclear Protein Ran (RAN) is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 24.4 kDa. The purity is >85% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Chicken
Expression System	<i>E.coli</i>
Purity	>85% (SDS-PAGE)
Predicted Molecular Weight	24.4 kDa
Physical State	Lyophilized
Formulation	Tris/PBS-based buffer, 5%-50% glycerol.

Target Information

Chicken GTP-Binding Nuclear Protein Ran (RAN) is a member of the Ras superfamily of small GTPases, playing a crucial role in nucleocytoplasmic transport, mitotic spindle formation, and cell cycle progression. Ran exists in two states, Ran GTP and Ran GDP, and its cycle is regulated by RCC1 (regulator of chromosome condensation 1) and Ran GTPase-activating proteins (RanGAPs). The gradient of Ran GTP and GDP across the nuclear envelope is essential for the directional transport of proteins and RNA between the nucleus and cytoplasm. During mitosis, Ran GTP facilitates the formation and stabilization of microtubules, which are critical for spindle assembly and chromosome segregation. Abnormal expression of Ran has been implicated in various cancers, highlighting its importance in maintaining cellular homeostasis.

Protein	Chicken GTP-Binding Nuclear Protein Ran (RAN)
Protein Synonym	GTPase Ran; Ras-like protein TC4; Ras-related nuclear protein
Gene ID	396193
EC No.	P42558

Shipping and Storage

This product is shipped with ice packs. Lyophilized protein can be stored at -80°C for 1 year. After reconstitution, the protein solution can be stored at 2-8°C for 2-7 days.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in deionized sterile water to a concentration of 0.1-1.0 mg/mL. Aliquot the reconstituted solution to minimize freeze-thaw cycles.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.