

RAN Human

Description: RAN Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 236 amino acids (1-216 a.a.) and having a molecular mass of 26.5 kDa. The RAN is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Catalog #: PRPS-848

For research use only.

Synonyms: ARA24, Gsp1, TC4, GTP-binding nuclear protein Ran, GTPase Ran, Ras-related nuclear protein, Ras-like protein TC4, Androgen receptor-associated protein 24, Ras-like, RANP1.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MAAQGEPQVQ FKLVLVDGG
TGKTTFVKRH LTGEFEKKYV ATLGVEVHPL VFHTNRGPIK FNVWDTAGQE KFGGLRDGYY
IQAQCAIMF DVTSRVTYKN VPNWHRDLVR VCENIPVLC GNKVDIKDRK VKAKSIVFHR
KKNLQYYDIS AKSNYNFEKP FLWLARKLIG DPNLEFVAMP ALAPPEVVM D PALAAQYEH
LEVAQTTALP DE

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

RAN Human solution containing 20mM Tris-HCl pH-8, 1mM DTT & 10% glycerol.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

RAN is a GTP-binding protein that participates in nucleocytoplasmic transport. RAN is necessary for the import of protein into the nucleus and also for RNA export. RAN takes part in chromatin condensation and control of cell cycle. The RAN complex with BIRC5 participates in mitotic spindle formation by being as a physical scaffold to assist the delivery of the RAN effector molecule TPX2 to microtubules. RAN increases AR-mediated transactivation.

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