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**Product Data Sheet**


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Product Name: RAN Human  
 Cat. No.: GP24329  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAAQGEPQVQ FKLVLVDGG TGKTTFVKRH LTGEFEKKYV ATLGVEVHPL VFHTNRGPIK FNVWDTAGQE KFGGLRDGYY IQAQCAIIMF DVTSRVTYKN VPNWHRDLVR VCENIPIVLC GNKVDIKDRK VKAKSIVFHR KKNLQYYDIS AKSNYNFEKP FLWLARKLIG DPNLEFVAMP ALAPPEVMD PALAAQYEHD LEVAQTTALP DEDDDL.		
Formulation	RAN Human solution containing 20mM Tris-HCl pH-8, 1mM DTT & 10% glycerol.		

**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.

**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.

**Background**

**Caution: Product has not been fully validated for medical applications. For research use only.**

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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.

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