

Active Recombinant Human RAN protein, His-tagged, Human wild type.

Cat. No. RAN-18H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RAN fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
Form	The protein is supplied as a lyophilized powder.
Bio-activity	Biological activity of the protein is determined by demonstrating that in GTP bound RN01 associates with RanBP1 protein while the GDP bound form of RN01 does not associate with the RanBBP1.
Molecular Mass	The protein is 31kD (but will run between 30-36 kDa on a 12% acrylamide gel).
Purity	Purity is determined by scanning densitometry of proteins on SDS-PAGE gels. His-Ran samples are >90% pure.
Applications	Ran biochemistry;Ran GTPase assays;Ran nucleotide exchange assays;Ran binding studies;
Storage	Stable at 4 centigrade for 1 year as a lyophilized powder. Once reconstituted as a 1 mg/ml solution the protein can be stored at -70 centigrade for 6 months. For frozen storage we recommend that the protein be supplemented with DTT to 1 mM final concentration, aliquoted into "experiment sized" amounts and snap frozen in liquid

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nitrogen. We do not recommend freeze-thawing of the protein.

Reconstitution

When it is reconstituted in distilled water to 1 mg/ml, the protein is in the following buffer: 1.4 mM Tris pH 7.5, 0.28 mM MgCl₂, 0.28% sucrose, 0.07% dextran.

GENE INFORMATION

Gene Name

RAN RAN, member RAS oncogene family [Homo sapiens]

Official Symbol

RAN

Synonyms

RAN; RAN, member RAS oncogene family; GTP-binding nuclear protein Ran; ARA24; Gsp1; TC4; RanGTPase; GTPase Ran; OK/SW-cl.81; ras-like protein TC4; member RAS oncogene family; ras-related nuclear protein; guanosine triphosphatase Ran; androgen receptor-associated protein 24;

Gene ID

5901

mRNA Refseq

NM_006325

Protein Refseq

NP_006316

MIM

601179

UniProt ID

P62826

**Chromosome
Location**

12

Pathway

Androgen Receptor Signaling Pathway, organism-specific biosystem; Aurora A signaling, organism-specific biosystem; Canonical NF-kappaB pathway, organism-

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specific biosystem; Disease, organism-specific biosystem; Export of Viral Ribonucleoproteins from Nucleus, organism-specific biosystem; FoxO family signaling, organism-specific biosystem; Gene Expression, organism-specific biosystem;

Function

GTP binding; GTPase activity; androgen receptor binding; chromatin binding; nucleotide binding; protein binding; transcription coactivator activity;

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