

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

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human RAN fused with His tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Form</b>	The protein is supplied as a lyophilized powder.
<b>Bio-activity</b>	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.
<b>Molecular Mass</b>	The protein is 31kD (but will run between 30-36 kDa on a 12% acrylamide gel).
<b>Purity</b>	Purity is determined by scanning densitometry of proteins on SDS-PAGE gels. His-Ran samples are >90% pure.
<b>Applications</b>	Ran biochemistry;Ran GTPase assays;Ran nucleotide exchange assays;Ran binding studies;
<b>Storage</b>	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 MgCl<sub>2</sub>, 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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