Recombinant Full Length Human RAN, Member RAS Oncogene Family, His-tagged

Cat. No. RAN-2582H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length human RAN, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-216 a.a.
Description	RAN, member RAS oncogene family, also known as RAN, is a small GTPase of the Ras superfamily that controls nucleocytoplasmic transport. It is involved in the directionality of the process that is regulated by GTP hydrolysis. Ran shuttles between the nucleus and the cytoplasm. Unlike many other regulatory GTPases, Ran is not posttranslationally modified so that it can be targeted to the subcellular compartment where it acts. Rather, RanGTP has been thought to be localized by the differential localization of Ran regulators.
Sequences	MGSSHHHHHH SSGLVPRGSH MAAQGEPQVQ FKLVLVGDGG TGKTTFVKRH LTGEFEKKYV ATLGVEVHPL VFHTNRGPIK FNVWDTAGQE KFGGLRDGYY IQAQCAIIMF DVTSRVTYKN VPNWHRDLVR VCENIPIVLC GNKVDIKDRK VKAKSIVFHR KKNLQYYDIS AKSNYNFEKP FLWLARKLIG DPNLEFVAMP ALAPPEVVMD PALAAQYEHD LEVAQTTALP DEDDDL.
Molecular Weight	26.5 kDa (236aa), confirmed by MALDI-TOF.

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Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol.
Purity	> 90% by SDS – PAGE.
Concentration	1mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	RAN RAN, member RAS oncogene family [Homo sapiens]
Synonyms	RAN; RAN, member RAS oncogene family; GTP-binding nuclear protein Ran; GTPase Ran; OK/SW-cl.81; OTTHUMP00000166078; OTTHUMP00000166102; RanGTPase; androgen receptor-associated protein 24; guanosine triphosphatase Ran; member RAS oncogene family; ras-like protein TC4; ras-related nuclear protein; OK/SW-cl.81; ARA24; Gsp1; TC4
Gene ID	5901
mRNA Refseq	NM_006325
Protein Refseq	NP_006316
MIM	601179
UniProt ID	P62826
Chromosome Location	12q24.3

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Pathway	HIV Infection; Influenza Infection; Regulatory RNA pathways
Function	GTP binding; GTPase activity; androgen receptor binding; chromatin binding; protein binding; transcription coactivator activity

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