

Recombinant Human RANGAP1, His-tagged

Cat. No. RANGAP1-30474TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 1-357 of Human RanGAP1 with N terminal His tag. MWt 41kDa;
Species	Human
Source	E.coli
ProteinLength	1-357 a.a.
Description	RanGAP1, is a homodimeric 65-kD polypeptide that specifically induces the GTPase activity of RAN, but not of RAS by over 1,000-fold. RanGAP1 is the immediate antagonist of RCC1, a regulator molecule that keeps RAN in the active, GTP-bound state. The RANGAP1 gene encodes a 587-amino acid polypeptide. The sequence is unrelated to that of GTPase activators for other RAS-related proteins, but is 88% identical to Fug1, the murine homolog of yeast Rna1p. RanGAP1 and RCC1 control RAN-dependent transport between the nucleus and cytoplasm. RanGAP1 is a key regulator of the RAN GTP/GDP cycle.
Conjugation	HIS
Tissue specificity	Highly expressed in brain, thymus and testis.
Form	Lyophilised:Reconstitution with 98 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium

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	phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MASEDIAKLAETLAKTQVAGGQLSFKGKSLKLNTAEDAKD VKEIEDFDSLEALRLEG NTVGVEAARVIAKALEKKSE LKRCHWSDMFTGRLRTEIPPALISLGEGLITAGAQLVE LDLSDNAFGPDGVQGFEALLKSSACFTLQELKLNNCGMGI GGGKILAAALTECHRK SSAQGKPLALKVVFVAGRNRLEN DGATALAEAFRVIGTLEEVEHMPQNGINHPGITALA QAF AVNPLLRVINLNDNTFTEKGAVAMAETLKTLRQVEVINFG DCLVRSKGAVAIAD AIRGGLPKLKELNLSFCEIKRDAA LAVAEAMADKAELEKLDLNGNTLGEEGCEQLQE VLEGF NMAKVLASL
Sequence Similarities	Belongs to the RNA1 family.Contains 6 LRR (leucine-rich) repeats.
Full Length	Full L.
GENE INFORMATION	
Gene Name	RANGAP1 Ran GTPase activating protein 1 [Homo sapiens]
Official Symbol	RANGAP1
Synonyms	RANGAP1; Ran GTPase activating protein 1; SD, segregation distorter homolog (Drosophila); ran GTPase-activating protein 1; Fug1; KIAA1835;
Gene ID	5905
mRNA Refseq	NM_002883
Protein Refseq	NP_002874

MIM	602362
Uniprot ID	P46060
Chromosome Location	22q13
Pathway	Cell Cycle, Mitotic, organism-specific biosystem; DNA Replication, organism-specific biosystem; HIV Infection, organism-specific biosystem; HIV Life Cycle, organism-specific biosystem; Host Interactions of HIV factors, organism-specific biosystem;
Function	GTPase activator activity; Ran GTPase activator activity; protein binding;

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