
Product Data Sheet

Product Name: RANBP1 Human

Cat. No.: GP24330

Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	RAN binding protein 1; HTF9A; ran-specific GTPase-activating protein; RanBP1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMAAAKD THEDHDTSTE NTDESNHDPQ FEIVSLPEQ EIKTLEEDDEE ELFKMRAKLF RFASENDLPE WKERGTGDVK LLKHKEKGAI RLLMRRDKTL KICANHYITP MMELKPNAGS DRAWVWNTHA DFADECCKPE LLAIRFLNAE NAQKFKTKFE ECRKEIEERE KKAGSGKNDH AEKVAEKLEA LSVKEETKED AEEKQ.		
Formulation	The RANBP1 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl, 1mM DTT and 10% glycerol.		

Introduction

RANBP1 is a member of a family of proteins which bind Ran GTPase. Ran GTPase is vital for cell cycle control, mRNA processing, nuclear transport, mitotic spindle assembly, and postmitotic nuclear re-assembly and nuclear architecture maintenance. RANBP1 does not stimulate GTPase activity of RAN however RANBP1 does distinctly raise GTP hydrolysis by the RanGTPase-activating protein (RanGAP1). Additionally, RANBP1 operates as a negative regulator of RCC1 by inhibiting RCC1-stimulated guanine nucleotide release from RAN.

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

RANBP1 Human Recombinant produced in E. coli is a single polypeptide chain containing

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225 amino acids (1-201) and having a molecular mass of 25.8kDa (molecular size on SDS-PAGE will appear higher).RANBP1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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