

Recombinant Human RTCA, His-tagged

Cat. No. RTCA-242H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RTCA, 1-366aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-366aa
Description	RTCA catalyzes the conversion of 3"-phosphate to a 2",3"-cyclic phosphodiester at the end of RNA. The mechanism of action of the enzyme occurs in 3 steps: (A) adenylation of the enzyme by ATP; (B) transfer of adenylate to an RNA-N3"P to produce RNA-N3"PP5"A; (C) and attack of the adjacent 2"-hydroxyl on the 3"-phosphorus in the diester linkage to produce the cyclic end product. The biological role of this enzyme is unknown but it is likely to function in some aspects of cellular RNA processing. Recombinant human RTCA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT
Molecular Mass	41.7 kDa (389aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAGPRVE VDGSIMEGGG QILRVSTALS CLLGLPLRVQ KIRAGRSTPG LRPQHLSGLE MIRDLCDGQL EGAEIGSTEI

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TFTPEKIKGG IHTADTKTAG SVCLLMQVSM PCVLFAASPS ELHLKGGTNA
EMAPQIDYTV MVFKPIVEKF GFIFNCDIKT RGYYPKGGGE VIVRMSPVKQ
LNPINLTERG CVTKIYGRAF VAGVLPFKVA KDMAAAVRC IRKEIRDLYV
NIQPVQEPKD QAFGNGNGII IIAETSTGCL FAGSSLGKRG VNADKVGIEA
AEMLLANLRH GGTVDEYLQD QLIVFMALAN GVSRIKTGPV TLHTQTAIHF
AEQIAKAKFI VKKSEDEEDA AKDTYIIECQ GIGMTNPNL

Purity	>85% by SDS - PAGE
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Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
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Concentration	0.25 mg/ml (determined by Bradford assay)
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