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**Product Data Sheet**


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Product Name: RTCA Human  
 Cat. No.: GP24452  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	RNA 3'-terminal phosphate cyclase; RPC; RTC1; RTCD1; RNA cyclase; RNA-3'-phosphate cyclase; RNA terminal phosphate cyclase domain-containing protein 1; RTC domain-containing protein 1; RTCA; RPC1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMAGPRVE VDGSIMEGGG QILRVSTALS CLLGLPLRVQ KIRAGRSTPG LRPQHLSGLE MIRDLCDGQL EGAEIGSTEI 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.		
Formulation	RTCA protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol and 1mM DTT.		

**Introduction**

RNA 3'-Terminal Phosphate Cyclase (RTCA) encodes a part of the RNA 3'-phosphate cyclase family. RTCA takes part in RNA metabolism by catalyzing the ATP-dependent conversion of the 3'-phosphate of RNA substrates to a 2',3'-cyclic phosphodiester. RTCA is involved in some phases of cellular RNA processing.

**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**

**Caution: Product has not been fully validated for medical applications. For research use only.**

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RTCA Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 389 amino acids (1-366a.a) and having a molecular mass of 41.7kDa. RTCA is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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