
Product Data Sheet

Product Name: RNgTT Human
 Cat. No.: GP22226
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	RNA Guanylyltransferase And 5'-Phosphatase; CAP1A; RNAGuanylyltransferase And 5-Phosphatase; HCAP1; HCE1; HCE; MRNA-Capping Enzyme; HCAP3; mRNA-capping enzyme.		
Amino Acid Sequence	<p>MGSSHHHHHH SGLVPRGSH MGSMAHNKIP PRWLNCPRRG QPVAGRFLPL KTMLGPRYDS QVAEENRFHPSMLSNYLKSL KVKMGLLDL TNSRFYDRN DIEKEGIKYI KLQCKGHGEC PTTENTETFI RLCERFNERNPPELIGVHCT HGFNRTGFLI CAFLVEKMDW SIEAAVATFAQARPPGIYKG DYLKELFRRY GDIEEAPPPP LLPDWCFEDD EDEDEDEDGKKESEPGSSAS FGKRRKERLK LGAIFLEGVT VKGVTQVTTQ PKLGEVQQKC HQFCGWEGSG FGAQPVSMQKQNIKLLDLK PYKVSWKADG TRYMMLIDGT NEVFMIDRDN SVFHVSNLEF PFRKDLRMHLSNTLLDGEMI IDRVNGQAVP RYLIYDIIF NSQPVGDCDF NVRLQCIEREIISPRHEKMK TGLIDKTQEP FSVRNKPFDF ICTSRKLEEG NFAKEVSHM DGLIFQPTGK YKPGRCDDILKWKPPSLNSV DFRLKITRMG GEGLLPQNVG LLYVGGYERP FAQIKVTKEL KQYDNKIIIECKFENNSWVFM RQRDKSFPN AYNTAMAVCN SISNPVTKEM LFEFIDRCTAASQGQKRKHH LDPDELMPP PPPKRPRPLT.</p>		
Formulation	RNgTT protein solution (0.25mg/ml) containing 20mMTris-HCl buffer (pH 7.5), 0.2M NaCl, 40% glycerol, 2mM DTT and 0.1mM PMSF.		

Introduction

RNA Guanylyltransferase And 5'-Phosphatase also known as RNgTT is abifunctional mRNA-capping enzyme which exhibits RNA 5'-triphosphatase activity in the N-terminal section and mRNA guanylyltransferase activity in the C-terminal section. In addition, RNgTT catalyzes the first two steps of cap formation, through removing the gamma-phosphate from the 5'-triphosphate end of nascent mRNA to yield adiphosphate end,

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

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and also by transferring the gmp moiety of GTP to the 5'-diphosphate terminus.

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

RNGTT Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 620 amino acids (1-597 a.a) and having a molecular mass of 70.9 kDa. RNGTT is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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