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32-2789: RNGTT Recombinant Protein

Alternative Name :	RNA Guanylyltransferase And 5'-Phosphatase,CAP1A,RNA Guanylyltransferase And 5-Phosphatase,HCAP1,HCE1,HCE,MRNA-Capping Enzyme,HCAP 3,mRNA-capping enzyme.

Description

Source : Escherichia Coli. RNGTT Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 620 amino acids (1-597a.a) and having a molecular mass of 70.9kDa. RNGTT is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. RNA Guanylyltransferase And 5'-Phosphatase also known as RNGTT is a bifunctional 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 a diphosphate end, and also by transferring the gmp moiety of GTP to the 5'-diphosphate terminus.

Product Info

Amount :	10 µg
Purification :	Greater than 85.0% as determined by SDS-PAGE.
Content :	RNGTT protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 7.5), 0.2M NaCl, 40% glycerol, 2mM DTT and 0.1mM PMSF.
Storage condition :	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.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSMAHNKIP PRWLNCPRRG QPVAGRFLPL KTMLGPRYDS QVAEENRFHPSMLSNYLKSL KVKMGLLVDL TNTSRFYDRN DIEKEGIKYI KLQCKGHGEC PTTENTETFI RLCERFNERNPPELIGVHCT HGFNRTGFLI CAFLVEKMDW SIEAAVATFAQARPPGIYKG DYLKELFRRY GDIEEAPPPP LLPDWCFEDD EDEDEDEDGKKESEPGSSAS FGKRRKERLK LGAIFLEGVT VKGVTQVTTQ PKLGEVQQKC HQFCGWEGSG FPGAQPVSMDKQNIKLLDLK PYKVSWKADG TRYMMLIDGT NEVFMIDRDN SVFHVSNLEF PFRKDLRMHL SNTLLDGEMI IDRVNGQAVP RYLIYDIIKF NSQPVGDCDF NVRLQCIEREIISPRHEKMK TGLIDKTQEP FSVRNKPFFD ICTSRKLLEG NFAKEVSHEM DGLIFQPTGK YKPGRCDDIL KWKPPSLNSV DFRLKITRMG GEGLLPQNVG LLYVGGYERP FAQIKVTKEL KQYDNKIIECKFENNSWVFM RQRTDKSFPN AYNTAMAVCN SISNPVTKEM LFEFIDRCTAASQGQKRKHH LDPDTELMPP PPPKRPRPLT.