

32-8693: Recombinant E. coli RNA Pyrophosphohydrolase/rppH

Gene : rppH
Gene ID : 947300
Uniprot ID : P0A776

Description

Source: E.coli.
MW :20.8kD.

Recombinant E.coli RNA pyrophosphohydrolase is produced by our E.coli expression system and the target gene encoding Met1-Gly176 is expressed. Messenger RNA (mRNA) degradation plays a key role in the control of gene expression in all organisms by limiting the number of times that each mRNA molecule can be used as a template for protein synthesis. RNA pyrophosphohydrolase, also called RppH, is a master regulator of 5'-dependent mRNA decay. It accelerates the degradation of transcripts by removing pyrophosphate from the 5'-end of triphosphorylated RNA, leading to a more labile monophosphorylated state that can stimulate subsequent ribonuclease cleavage. RppH preferentially hydrolyzes diadenosine penta-phosphate with ATP as one of the reaction products, and can be able to hydrolyze diadenosine hexa- and tetra-phosphate. However, this protein has no activity on diadenosine tri-phosphate, ADP-ribose, NADH and UDP-glucose. In the meningitis causing strain E.coli K1, it has been shown to play a role in HBMEC (human brain microvascular endothelial cells) invasion in vitro.

Product Info

Amount : 10 µg / 50 µg
Content : Supplied as a 0.2 µm filtered solution of 50mM Tris, 500mM NaCl, 10% glycerol, pH8.0.
Storage condition : Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Amino Acid : MIDDGYPNVGIVICNRQGQVMWARRFGQHSWQFPQGGINPGESAEQAMYRELFEEVGLSRKDVRI₁LA₁STR₁
NWLRYKLPKRLVRWDTKPCIGQKQKWFLQLVSGDAEINMQTSSTPEFDGWRWVSYPVVRQVVSFKRDV₁
YRRVMKEFASVVM₁SLQENTPKPQNASAYRRKRG

Application Note

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.