Creative Enzymes®

5'-(N7-methyl 5'-triphosphoguanosine)-[mRNA] diphosphatase

Cat. No. EXWM-4631

Lot. No. (See product label)

Introduction

Description	The enzyme removes (decaps) the N7-methylguanosine 5-phosphate cap from an mRNA degraded to a maximal length of 10 nucleotides. Decapping is an important process in the control of eukaryotic mRNA degradation. The enzyme functions to clear the cell of cap structure following decay of the RNA body. The nematode enzyme can also decap triply methylated substrates, 5'-(N2,N2,N7-trimethyl 5'-triphosphoguanosine)-[mRNA].
Synonyms	DcpS; m7GpppX pyrophosphatase; m7GpppN m7GMP phosphohydrolase; m7GpppX diphosphatase; m7G5'ppp5'N m7GMP phosphohydrolase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 3.6.1.59
Reaction	a 5'-(N7-methyl 5'-triphosphoguanosine)-[mRNA] + H2O = N7-methylguanosine 5'-phosphate + a 5'-diphospho-[mRNA]
Notes	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage	Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.