Creative Enzymes®

cyclic-guanylate-specific phosphodiesterase

Cat. No. EXWM-3735

Lot. No. (See product label)

Introduction

Description	Requires Mg2+ or Mn2+ for activity and is inhibited by Ca2+ and Zn2+. Contains a heme unit. This enzyme linearizes cyclic di-3,5-guanylate, the product of EC 2.7.7.65, diguanylate cyclase and an allosteric activator of EC 2.4.1.12, cellulose synthase (UDP-forming), rendering it inactive. It is the balance between these two enzymes that determines the cellular level of c-di-GMP.
Synonyms	cyclic bis(3→5')diguanylate phosphodiesterase; c-di-GMP-specific phosphodiesterase; c-di-GMP phosphodiesterase; phosphodiesterase (misleading); phosphodiesterase A1; PDEA1; VieA

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 3.1.4.52
CAS No.	338732-46-0
Reaction	cyclic di-3',5'-guanylate + H2O = 5'-phosphoguanylyl(3'→5')guanosine
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 ℃.