

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 °C for short term. For long term storage, store it at -20 °C~-80 °C.