Creative Enzymes®

diguanylate cyclase

Cat. No. EXWM-3276

Lot. No. (See product label)

Introduction

Description	A GGDEF-domain-containing protein that requires Mg2+ or Mn2+ for activity. The enzyme can be activated by BeF3, a phosphoryl mimic, which results in dimerization. Dimerization is required but is not sufficient for diguanylate-cyclase activity. Cyclic di-3',5'-guanylate is an intracellular signalling molecule that controls motility and adhesion in bacterial cells. It was first identified as having a positive allosteric effect on EC 2.4.1.12, cellulose synthase (UDP-forming).
Synonyms	DGC; PleD

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.7.7.65
CAS No.	146316-82-7
Reaction	2 GTP = 2 diphosphate + cyclic di-3',5'-guanylate
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 ℃.