

## diguanylate cyclase

Cat. No. EXWM-3276

Lot. No. (See product label)

### Introduction

#### Description

A GGDEF-domain-containing protein that requires Mg<sup>2+</sup> or Mn<sup>2+</sup> for activity. The enzyme can be activated by BeF<sub>3</sub>, 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.