Creative Enzymes®

Diguanylate Cyclase, engineered

Cat. No. NATZ-005

Lot. No. (See product label)

Introduction

Description	The diguanylate cyclase has been engineered to remove phosphodiesterase activity and overexpressed in E. coli. It catalyzes the formation of guanosine triphosphate (GTP) into cyclic-diGMP, without the production of 5'-phosphoguanylyl-(3',5')-guanosine (pGpG). No product inhibition even at high concentrations of GTP. In addition, the engineered diguanylate cyclase can be either immobilized or used to catalyze radiolabeled substrates.

Product Information

Species	Agrobacterium vitis
Source	Escherichia coli
Form	Liquid
EC Number	EC 2.7.7.65
Molecular Weight	56 kDa
Purity	>99% based on SDS-PAGE analysis with coomassie blue
Activity	7.5 nmol min-1
Concentration	0.8mg/mL
Optimum temperature	– 80°C