

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

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| 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 |