

## Guanylate Kinase (ScGMK)

### Product Information

|                                 |                                                                                                                                                                                                                                                                                        |
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| <b>Cat#</b>                     | DIA-738                                                                                                                                                                                                                                                                                |
| <b>Descriptions</b>             | Guanylate kinase (ScGMK) derived from <i>Saccharomyces cerevisiae</i> mediates the reversible phosphorylation of GMP to GDP using ATP as phosphate donor, is a key enzyme in guanine nucleotide metabolism, and is applied for GTP regeneration and nucleic acid biosynthesis studies. |
| <b>Applications</b>             | Guanylate kinase (ScGMK) is used for guanine nucleotide metabolism detection kits and GTP regeneration system reagent development.                                                                                                                                                     |
| <b>CAS No.</b>                  | 127-4-81                                                                                                                                                                                                                                                                               |
| <b>Enzyme Commission Number</b> | EC 2.7.4.8                                                                                                                                                                                                                                                                             |
| <b>Enzyme Source</b>            | E.coli recombinant Sc GMK from <i>Salmonella choleraesuis</i> .                                                                                                                                                                                                                        |
| <b>Reaction</b>                 | ATP + GMP = ADP + GDP                                                                                                                                                                                                                                                                  |
| <b>Activity Definition</b>      | One unit is defined as the amount of enzyme that catalyzes the formation of 1 $\mu$ mol of GDP from GMP and ATP at 37°C.                                                                                                                                                               |