

## Recombinant Mouse Dgke Protein, Myc/DDK-tagged

**Cat. No.** Dgke-2537M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Purified recombinant protein of mouse full-length diacylglycerol kinase, epsilon (Dgke), with C-terminal MYC/DDK tag, expressed in HEK293T cells.   |
| <b>Species</b>          | Mouse   |
| <b>Source</b>           | HEK293  |
| <b>Description</b>      | Membrane-bound diacylglycerol kinase that converts diacylglycerol/DAG into phosphatidic acid/phosphatidate/PA and regulates the respective levels of these two bioactive lipids. Thereby, acts as a central switch between the signaling pathways activated by these second messengers with different cellular targets and opposite effects in numerous biological processes. Also plays an important role in the biosynthesis of complex lipids. Displays specificity for diacylglycerol substrates with an arachidonoyl acyl chain at the sn-2 position, with the highest activity toward 1-octadecanoyl-2-(5Z,8Z,11Z,14Z-eicosatetraenoyl)-sn-glycerol the main diacylglycerol intermediate within the phosphatidylinositol turnover cycle. Can also phosphorylate diacylglycerol substrates with a linoleoyl acyl chain at the sn-2 position but much less efficiently. |
| <b>Molecular Mass</b>   | 64.1 kDa  |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining   |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.   |

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|-----------------------|---|
| <b>Storage</b>        | Store at -80 centigrade after receiving vials.        |
| <b>Concentration</b>  | >50 µg/mL as determined by microplate BCA method      |
| <b>Storage Buffer</b> | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol. |

## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | Dgke diacylglycerol kinase, epsilon [ Mus musculus (house mouse) ]   |
| <b>Official Symbol</b> | Dgke   |
| <b>Synonyms</b>        | DGKE; diacylglycerol kinase, epsilon; diacylglycerol kinase epsilon; DGK-epsilon; DAG kinase epsilon; diglyceride kinase epsilon; DGK; DAGK6; C87606 |
| <b>Gene ID</b>         | 56077  |
| <b>mRNA Refseq</b>     | NM_019505  |
| <b>Protein Refseq</b>  | NP_062378  |
| <b>UniProt ID</b>      | Q9R1C6   |

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