

Recombinant Mouse Dgka Protein, Myc/DDK-tagged

Cat. No. Dgka-2534M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length diacylglycerol kinase, alpha (Dgka), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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. Can also phosphorylate 1-alkyl-2-acylglycerol in vitro as efficiently as diacylglycerol provided it contains an arachidonoyl group. Also involved in the production of alkyl-lysophosphatidic acid, another bioactive lipid, through the phosphorylation of 1-alkyl-2-acetyl glycerol.
Molecular Mass	82.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration	>50 µg/mL as determined by microplate BCA method
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Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
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GENE INFORMATION

Gene Name	Dgka diacylglycerol kinase, alpha [Mus musculus (house mouse)]
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Official Symbol	Dgka
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Synonyms	DGKA; diacylglycerol kinase, alpha; diacylglycerol kinase alpha; DGK-alpha; DAG kinase alpha; diglyceride kinase alpha; 80 kDa diacylglycerol kinase; 80kDa; Dagk1; AW146112
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Gene ID	13139
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mRNA Refseq	NM_016811
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Protein Refseq	NP_058091
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UniProt ID	O88673
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