

DGKA Protein, Human, Recombinant (His)

General Information

Synonyms:	DAGK;Diacylglycerol kinase alpha;DAG kinase alpha;Diglyceride kinase alpha (DGK-alpha); DGKA;DAGK1;80 kDa diacylglycerol kinase
Protein Construction:	1-735 aa
Species:	Human
Expression Host:	E. coli
Accession:	P23743
Molecular Weight:	86.6 kDa (predicted)
AA Sequence:	MAKERGLISPSDFAQLQKYMESTKKVSDVLKLFEDGEMAKYVQGDIAIGYEGFQQFLKIYLEVDNVPRLSLA LFQSFETGHCLNETNVTKDVVCLNDVSCYFSLLEGGRPEDKLEFTFKLYDTRNGILDSSEVDKIILQMMRVAE YLDWDVSELRPILQEMMKEIDYDGGSGSVQA EWVRAGATTVP LLVLLGLEMTLKDDGQH MWRPKRFP RPVY CNLCESSIGLGKQGLSCNLCKYTVHDQCAMKALPCEVSTYAKSRKDIGVQSHVWVRGGCESGRCDRCQKKIRI YHSLTGLHCVWCHLEIHDDCLQAVGHECDCGLLRDHILPPSSIYPSVLASGPDRKNSKTSQKTMDLNLSTSE ALRIDPVPNTHPLLVFVNP KSGGKQGQRVLWKFQYILNPRQVFNLLKDGPEIGLRLFKDVPDSRILVCGGDGT VGWILETIDKANLPVLPVAVLPLGTGNDLARCLRWGGGYEQNLAKILKDLMSKVHMDRWSVEVIPQQT EEKSDPVPFQIINNYFSIGVDASIAHRFHIMREKYPEKFNSRMKNKLWYFEFATSEIFSTCKLEESLTV EICGK PLDLSNLSLEGI AVLNIPSMHGGSNLWGDTRRPHGDIYGINQALGATAKVITDPDILKTCVPDLSDKRLEV VGL EGA IEMGQIYTKLKNAGRRLAKCSEITFHHTKTLPMQIDGEPWMQTPCTIKITHKNQMPMLMGPPPRSTNFFG FLS

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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 (Probable). 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.

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