

Recombinant Human DGKD Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DGKD-3400H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

DGKD MS Standard C13 and N15-labeled recombinant protein (NP_690618) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

This gene encodes a cytoplasmic enzyme that phosphorylates diacylglycerol to produce phosphatidic acid. Diacylglycerol and phosphatidic acid are two lipids that act as second messengers in signaling cascades. Their cellular concentrations are regulated by the encoded protein, and so it is thought to play an important role in cellular signal transduction. Alternative splicing results in two transcript variants encoding different isoforms.

Molecular Mass

134.3 kDa

AA Sequence

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MAAAAGAPPPGPPQPPPPPPPEESSDSEPEAEPGSPQKLIRKVSTSGQIRQKTIIE
GMLTKQNNFQRSKRRYFKLRGRTLYYAKTAKSIIFDEVLDLTDASVAESSTKNVNN
FTVITPCRKLILCADNRKEMEDWIAALKTVQNREHFPTQYSMDHFSGMHNWYACS
HARPTYCNVCREALSGVTSHGLSCEVCKFKAHKRC AVRATNNCKWTTLASIGKDIIE
DADGIAMPHQWLEGNLPVSAKCTVCDKTCGSVLRQLDWRCLWCKAMVHTSCKESL
LTKCPLGLCKVSVIPPTALNSIDSDGFWKASCPPSCTSPLLVFNNSKSGDNQGVKFL
RRFKQLLNPAQVFDLMNGGPHLGLRRLFQKFDTRILVCGGDGSGVWVLSLSEIDSLNL
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HKQCQLGVLPLGTGNDLARVLGWGSACDDDTQLPQILEKLERASTKMLDRWSVMA
 YEAKLPRQASSSTVTEDFSEDSEVQQILFYEDSVAAHLSKILTSDQHSVVISSAKVLC
 ETVKDFVARVVKAYEKTTESESESEVMMAKKCSVLKEKLDSSLKTLDDDESQASSSLPN
 PPPTIAEEAEDGDGSGSICGSTGDRLVASACPARPQIFRPREQLMLRANSLKKAIRQI
 IEHTEKAVDEQNAQTQEQEGFVLGLSESEEKMDHRVCPPLSHSESFVGPKGRSQR
 KVSKSPCEKLIKSLGSLGSSASLPPQPGSRDGLPALNTKILYPNVRAGMSGSLPGG
 SVISRLLINADPFNSEPETLEYYTEKCVMNNYFGIGLDAKISLDFNKRDEHPEKCRS
 RTKNMMWYGVLTGKELLHRTYKNLEQKVLLCEDGRPIPLPSLQGIAVLNIPSYAGGT
 NFWGGTKEDDTFAAPSFDDKILEVVAVFGSMQMAVSRVIRLQHHRIAQCRTVKISIL
 GDEGVPVQVDGEAWVQPPGYIRIVHKNRAQTLTRDRAFESTLKSWEKQKCELPR
 PPSCSLHPEMLSEEEATQMDQFGQAAGVLIHSIREIAQSHRDMEQELAHAVNASSK
 SMDRVYGKPRTEGLNCSFVLEMVNNFRALRSETELLSGKMALQLDPPQKEQLGS
 ALAEMDRQLRRLADTPWLCQSAEPGDEESVMLDLAKRSRSGKFRLVTKFKKEKNN
 KNKEAHSSLGAPVHLWGTEEVAAWLEHLSLCEYKDIFTRHDIRGSELLHLERRDLKD
 LGVTKVGHMKRILCGIKELSRSAPEATRTRPLEQKLISEEDLAANDILDYKDDDDK
 V

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION



Gene Name	DGKD diacylglycerol kinase delta [Homo sapiens (human)]
Official Symbol	DGKD
Synonyms	DGKD; diacylglycerol kinase, delta 130kDa; diacylglycerol kinase, delta (130kD); diacylglycerol kinase delta; DGKdelta; diglyceride kinase; KIAA0145; DGK-delta; DAG kinase delta; diglyceride kinase delta; dgkd-2; FLJ26930;
Gene ID	8527
mRNA Refseq	NM_152879
Protein Refseq	NP_690618
MIM	601826
UniProt ID	Q16760

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