

Recombinant Human DGKD, His-tagged

Cat. No. DGKD-26772TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 928-1170 of Human DGKD with a N terminal His tag; Predicted MWt 28 kDa:
Species	Human
Source	E.coli
ProteinLength	928-1170 a.a.
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.
Conjugation	HIS
Form	Lyophilised:Reconstitution with 71 µl aqua dest.
Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



Sequences of amino acids

MLSEEEATQMDQFGQAAGVLIHSIREIAQSHRDMEQELAH AVNASSKSMDRVYGK
 PRTTEGLNCSFVLEMVNNFRALR SETELLLSGKMALQLDPPQKEQLGSALAEMDR
 QLRRLA DTPWLCQSAEPGDEESVMLDLAKRSRSGKFRLVTKFKKEK NKNKEAHS
 SLGAPVHLWGTEEVAAWLEHLSLCEYKDI FTRHDIRGSELLHLERRDLKDLGVTKVG
 HMKRILCGIK ELSRSAPAVEA

GENE INFORMATION

Gene Name DGKD diacylglycerol kinase, delta 130kDa [Homo sapiens]

Official Symbol DGKD

Synonyms DGKD; diacylglycerol kinase, delta 130kDa; diacylglycerol kinase, delta (130kD); diacylglycerol kinase delta; DGKdelta; diglyceride kinase; KIAA0145;

Gene ID 8527

mRNA Refseq NM_003648

Protein Refseq NP_003639

MIM 601826

Uniprot ID Q16760

Chromosome Location 2q37

Pathway Effects of PIP2 hydrolysis, organism-specific biosystem; G alpha (q) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; Glycerolipid metabolism, organism-specific biosystem; Glycerolipid

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metabolism, conserved biosystem;

Function

ATP binding; diacylglycerol binding; diacylglycerol kinase activity; diacylglycerol kinase activity; metal ion binding;

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