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: NoneConstituents: 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.

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Sequences of amino acids	MLSEEEATQMDQFGQAAGVLIHSIREIAQSHRDMEQELAH AVNASSKSMDRVYGK PRTTEGLNCSFVLEMVNNFRALR SETELLLSGKMALQLDPPQKEQLGSALAEMDR QLRRLA DTPWLCQSAEPGDEESVMLDLAKRSRSGKFRLVTKFKKEK NNKNKEAHS 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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