Recombinant Human DGKZ, His-tagged

Cat. No. DGKZ-26682TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 641-895 of Human DGKZ with N terminal His tag; MWt 35kDa.
Species	Human
Source	E.coli
ProteinLength	641-895 a.a.
Description	The protein encoded by this gene belongs to the eukaryotic diacylglycerol kinase family. It may attenuate protein kinase C activity by regulating diacylglycerol levels in intracellular signaling cascade and signal transduction. Alternative splicing occurs at this locus and multiple transcript variants encoding distinct isoforms have been identified.
Conjugation	HIS
Tissue specificity	Highest levels in brain, and substantial levels in skeletal muscle, heart, and pancreas. Isoform 1 is predominantly expressed in muscle.
Form	Lyophilised:Reconstitute with 148 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	GTVVVPGDSDLELCRAHIERLQQEPDGAGAKSPTCQKLSP KWCFLDATTASRFYRI DRAQEHLNYVTEIAQDEIYILD PELLGASARPDLPTPTSPLPTSPCSPTPRSLQGDAA PP QGEELIEAAKRNDFCKLQELHRAGGDLMHRDEQSRTLL HHAVSTGSKDVVRYL LDHAPPEILDAVEENGETCLHQAAALGQRTICHYIVEAGASLMKTDQQGDTPRQRAE KAQDTE LAAYLENRQHYQMIQREDQETAV
Sequence Similarities	Belongs to the eukaryotic diacylglycerol kinase family.Contains 2 ANK repeats.Contains 1 DAGKc domain.Contains 2 phorbol-ester/DAG-type zinc fingers.

GENE INFORMATION

Gene Name	DGKZ diacylglycerol kinase, zeta [Homo sapiens]
Official Symbol	DGKZ
Synonyms	DGKZ; diacylglycerol kinase, zeta; diacylglycerol kinase, zeta 104kDa; diacylglycerol kinase zeta; DAGK5; DAGK6; DGK ZETA; hDGKzeta;
Gene ID	8525
mRNA Refseq	NM_001199267
Protein Refseq	NP_001186196
MIM	601441
Uniprot ID	Q13574
Chromosome	11p11.2

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Location	
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 metabolism, conserved biosystem;
Function	ATP binding; diacylglycerol kinase activity; diacylglycerol kinase activity; enzyme inhibitor activity; lipid kinase activity;

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