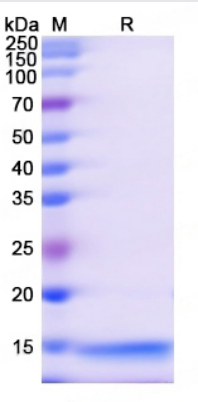
DGKA Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	DGKA, Recombinant Protein
Full Product Name	Recombinant Human DGKA Protein, N-His
Product Gene Name	DGKA recombinant protein
Product Synonym Names	Diacylglycerol kinase alpha; 80 kDa diacylglycerol kinase; DAGK1; DGKA; Diglyceride kinase alpha; DAG kinase alpha; DAGK; DGK-alpha
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	82,630 Da
Sequence Positions	Met1-Thr118
Chromosome Location	Chromosome: 12; NC_000012.11 (56324946..56347807). Location: 12q13.3
OMIM	125855
3D Structure	ModBase 3D Structure for P23743
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for DGKA recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for DGKA recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for DGKA recombinant protein	MBS1576785 is a recombinant protein targeting DGKA. Also known as Recombinant Human DGKA Protein, N-His. Host: E coli.
Other Notes	Small volumes of DGKA recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of DGKA recombinant protein
SDS PAGE for Recombinant Human DGKA Protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DGKA. It may not necessarily be applicable to this product.

NCBI GI #	31542504
NCBI GeneID	1606
NCBI Accession #	NP_001336.2
UniProt Primary Accession #	P23743
UniProt Secondary Accession #	O75481; O75482; O75483; O95217; Q8IZ56; Q8N5Q2
UniProt Related Accession #	P23743
GenBank Nucleotide #	NM_001345.4
NCBI Official Full Name	diacylglycerol kinase alpha
NCBI Official Synonym Full Names	diacylglycerol kinase, alpha 80kDa
NCBI Official Symbol	DGKA
NCBI Official Synonym Symbols	DAGK; DAGK1; DGK-alpha
UniProt Protein Name	Diacylglycerol kinase alpha
UniProt Synonym Protein Names	80 kDa diacylglycerol kinase; Diglyceride kinase alpha
Protein Family	Diacylglycerol kinase
UniProt Gene Name	DGKA
UniProt Synonym Gene Names	DAGK; DAGK1; DAG kinase alpha; DGK-alpha
UniProt Entry Name	DGKA_HUMAN
NCBI Protein Information	diacylglycerol kinase alpha; DAG kinase alpha; diglyceride kinase alpha; 80 kDa diacylglycerol kinase
NCBI Summary for DGKA	The protein encoded by this gene belongs to the eukaryotic diacylglycerol kinase family. It acts as a modulator that competes with protein kinase C for the second messenger diacylglycerol in intracellular signaling pathways. It also plays an important role in the resynthesis of phosphatidylinositols and phosphorylating diacylglycerol to phosphatidic acid. Alternative splicing occurs at this locus and four transcript variants encoding the same protein have been identified. [provided by RefSeq, Jul 2008]

UniProt Comments for DGKA	DGKA: Upon cell stimulation converts the second messenger diacylglycerol into phosphatidate, initiating the resynthesis of phosphatidylinositols and attenuating protein kinase C activity. Monomer. Lymphocytes and oligodendroglial cells. Stimulated by calcium and phosphatidylserine. Phosphorylated by protein kinase C. Belongs to the eukaryotic diacylglycerol kinase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Kinase, lipid; EC 2.7.1.107; Motility/polarity/chemotaxis; Lipid Metabolism - glycerophospholipid; Lipid Metabolism - glycerolipid Chromosomal Location of Human Ortholog: 12q13.3 Cellular Component: membrane; plasma membrane; cytosol Molecular Function: phospholipid binding; calcium ion binding; diacylglycerol kinase activity; ATP binding; NAD+ kinase activity Biological Process: platelet activation; protein kinase C activation; blood coagulation; phosphorylation
Research Articles on DGKA	**1.** DGKalpha is involved in hepatocellular carcinoma progression by activation of the MAPK pathway.
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