

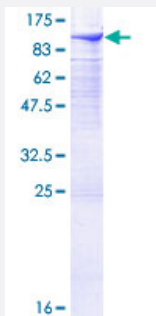
Full-Length

DGKA (Human) Recombinant Protein (P02)

Catalog # H00001606-P02

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human DGKA full-length ORF (NP_001336.2, 1 a.a. - 735 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAKERGLISPSDFAQLQKYMESTKKVSDVLKLFEDGEMAKYVQGDAIGYEGFQQFLKMYLEVDN
VPRHLSLALFQSFETGHCLNETNVT KD VVCLNDVSCYFSLLEGGRPEDKLEFTFKLYDTRNGIL
DSSEVDKII LQMMRVAEYLDWDVSEL RPILQEMMKEIDYD GSGSVSQA EWVRAGATTVPLL VLLG
LEMTLKDDGQH MWRPKRFPRPVYCNLCES SIGLGKQGLSCNLCKYTVDHQCAMKALPCEVSTY
AKSRKDIGVQSHVWVRGGCESGRCDRCQKKIRYHSLTGLHCVWCHLEIHDDCLQAVGHECDCG
LLRDHILPPSSIYPSVLASGPDRKNSKTSQKTMDDLNLSTSEALRIDPVPNTHPLL VFVNPKSGGK
QQQRVLWK FQYILNPRQVFNLLKDGPEIGLRLFKDVPDSRILVCGGDGTVGWILETIDKANLPVLP
PVAVLPLGTGNDLARCLRWGGGYEGQNLAKILKDLEMSKV VHM DRWSVEVIPQQTEEKSDPVP
FQIINNYFSIGVDASIAHRFHIMREKYPEKFNSRMKNKLWYFEFATSESI FSTCKKLEESLTVEICGKP
LDLSNLSLEGIAVLNIPSMHGGSNLWGDTRRPHGDIYGINQALGATAKVITDPDILKTCVPDL SDKRL
EVVGLEGAIE MGQYTKLKNAGRRLAKCSEITFHTTKTLP MQIDGEPWMQTPCTIKITHKNQMPMLM
GPPPRSTNFFGFLS

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

109

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — DGKA

Entrez GeneID	1606
GeneBank Accession#	NM_001345.4
Protein Accession#	NP_001336.2
Gene Name	DGKA
Gene Alias	DAGK, DAGK1, DGK-alpha, MGC12821, MGC42356
Gene Description	diacylglycerol kinase, alpha 80kDa
Omim ID	125855
Gene Ontology	Hyperlink
Gene Summary	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 intra cellular signaling pathways. It also plays an important role in the resynthesis of phosphatidylinositol 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]
Other Designations	diacylglycerol kinase alpha diacylglycerol kinase, alpha (80kD)

Pathway

- [Glycerolipid metabolism](#)
- [Glycerophospholipid metabolism](#)
- [Metabolic pathways](#)
- [Phosphatidylinositol signaling system](#)