

Diacylglycerol Kinase Epsilon (DGKe) Active Protein | DGKe active protein

Active Diacylglycerol Kinase Epsilon (DGKe)

CATALOG # AAA148145	REACTIVITY Human	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Diacylglycerol Kinase Epsilon (DGKe); Active Diacylglycerol Kinase Epsilon (DGKe); DAGK5; DGK; Diglyceride kinase epsilon; DGKe active protein

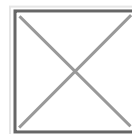
PRODUCT SPECIFICATIONS

Reactivity	Human
Purity/Purification	> 95%
Form/Format	Freeze-dried powder
Sequence Length	567
Applicable Applications for DGKe active protein	Activity Assay, Cell Culture
Tag	N-terminal His Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Fragment	Leu243~Gly502
Isoelectric Point	7.7

IMAGES



Application Data



SDS-PAGE



Activity

DGKe (Diacylglycerol kinase epsilon) is an enzyme that mainly involved in the regeneration of phosphatidylinositol (PI) from diacylglycerol in the PI-cycle during cell signal transduction. PDHA1 (Pyruvate dehydrogenase E1 component subunit alpha) has been proven to be an interactor of DGKe through Affinity Capture-MS. Thus a binding ELISA assay was conducted to detect the interaction of recombinant human DGKe and recombinant human PDHA. Briefly, DGKe were diluted serially in PBS, with 0.01%BSA (pH 7.4). Duplicate samples of 100uL DGKe were then transferred to PDHA-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-DGKe pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of DGKe and PDHA was shown in Figure 1, and this effect was in a dose dependent manner.

ADDITIONAL INFORMATION

Product Categories/Family for DGKe active protein	Metabolic pathway
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4503313
NCBI GeneID	8526
NCBI Accession #	NP_003638.1
NCBI GenBank Nucleotide #	NM_003647.2
UniProt Accession #	P52429; Q8TBM4; Q9UKQ3
Molecular Weight	Predicted Molecular Weight: 32.5kDa Accurate Molecular Weight: 33kDa
NCBI Official Full Name	diacylglycerol kinase epsilon
NCBI Official Synonym Full Names	diacylglycerol kinase epsilon
NCBI Official Symbol	DGKE
NCBI Official Synonym Symbols	DGK; AHUS7; DAGK5; DAGK6; NPHS7
NCBI Protein Information	diacylglycerol kinase epsilon
UniProt Protein Name	Diacylglycerol kinase epsilon
UniProt Gene Name	DGKE
UniProt Synonym Gene Names	DAGK5; DAG kinase epsilon; DGK-epsilon

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-active-protein/diacylglycerol-kinase-epsilon-dgke/148145>