

Recombinant Human PRKD3 protein, His & T7-tagged

Cat. No. PRKD3-8031H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRKD3 aa. (Ile576~Leu832 (Accession # O94806)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ile576~Leu832
Description	This gene belongs to the multigene protein kinase D family of serine/threonine kinases, which bind diacylglycerol and phorbol esters. Members of this family are characterized by an N-terminal regulatory domain comprised of a tandem repeat of cysteine-rich zinc-finger motifs and a pleckstrin domain. The C-terminal region contains the catalytic domain and is distantly related to calcium-regulated kinases. Catalytic activity of this enzyme promotes its nuclear localization. This protein has been implicated in a variety of functions including negative regulation of human airway epithelial barrier formation, growth regulation of breast and prostate cancer cells, and vesicle trafficking.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 29.4kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)

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Purity	>90%
Characteristic	The isoelectric point is 8.4.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	PRKD3 protein kinase D3 [Homo sapiens (human)]
Official Symbol	PRKD3
Synonyms	EPK2; PKD3; PRKCN; PKC-NU; nPKC-NU; protein kinase C nu type; protein kinase EPK2; serine/threonine-protein kinase D3
Gene ID	23683

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mRNA Refseq	NM_005813.4
Protein Refseq	NP_005804.1
UniProt ID	O94806

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