

Certificate of Analysis

PRKCE, (PKC Epsilon), 10 µg

Protein Kinase C Epsilon, Recombinant human

ThermoFisher
SCIENTIFIC

Part Number: A41914

Lot Number: 2461318

Immediate Storage: -80°C

Shipping Conditions: dry ice

5781 Van Allen Way

Carlsbad, CA 92008

Phone: 760.603.7200

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Description:

Recombinant human active PRKCE, (PKC Epsilon), full length, amino acids M₁ – P₇₃₇, with an N-terminal GST-HIS₆ tag with a Thrombin cleavage site was expressed in insect cells. No special measures were taken to activate this kinase.

Accession Number:

The gene accession number for PRKCE, (PKC Epsilon) is NP_005391.1.

Specific Activity:

184 nmoles of phosphate transferred to PKC-derived peptide per minute per mg of total protein at saturating ATP.

Concentration:

0.366 mg/mL total protein as measured using the Bradford protein assay with BSA as a standard. Calculated **3,230 nM**.

Aliases:

PKCE

Storage and Handling:

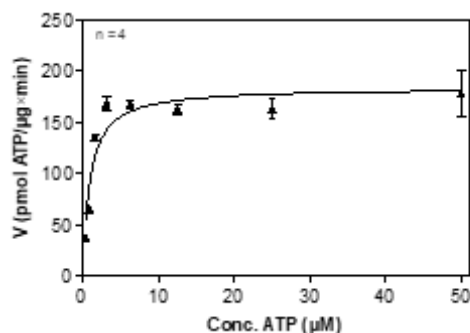
For maximum recovery please spin prior to use. Unless noted below, aliquots of the 5 µg, 10 µg and 20 µg sizes of kinase are not recommended as materials can be used in original packaging until exhausted. For larger sizes, the number of freeze/thaws may be reduced by preparing aliquots, aliquots below 20 µL are not recommended. **Please never store a kinase diluted.** If properly stored at -80°C, this product is guaranteed for 6 months from date of purchase.

Storage Buffer:

50 mM TRIS-HCl (pH 8.0), 100 mM NaCl, 5 mM DTT, 4 mM glutathione and 20% Glycerol.

QUALITY ASSURANCE

PRKCE, (PKC Epsilon) Activity Graph



Assay Conditions:

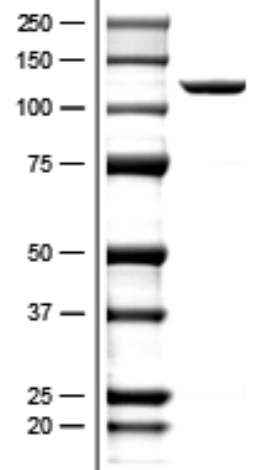
PRKCE, (PKC Epsilon) was assayed for activity at 1.0 µg/mL in 60 mM HEPES (pH 7.5), 3 mM MgCl₂, 3 mM MnCl₂, 1 mM CaCl₂, 4 mM EDTA, 3 µM Na₃VO₄, 5 µg/mL Phosphatidylserine, 1 µg/mL 1,2 Dioleoyl-glycerol, 1.2 mM DTT, 50 µg/mL PEG_{20,000}, ATP (titrated) using 10 µg/mL PKC-derived peptide

Gel Information for PRKCE, (PKC Epsilon)

Page Description: Run on an SDS-PAGE gel kDa and stained with Coomassie®.

Lane 1: Molecular Weight markers as labeled.

Lane 2: 2 µg PRKCE, (PKC Epsilon)



Molecular Weight:

113.4 kDa. Calculated from the protein sequence(s).

Protein sequence alignment with reference sequence(s)

GenBank Accession Number: NP_006246.2

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1 MSPILGYWKI KGLVQPTRLL LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID GDVKLTQDMA IIRYIADKHN MLGGCPKERA EISMLEGAVL GST-H6
1 MSPILGYWKI KGLVQPTRLL LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID GDVKLTQDMA IIRYIADKHN MLGGCPKERA EISMLEGAVL LIFE PRKCE
1 ----- NP_006246.2
101 DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIQID KYLKSSSKYIA
101 DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIQID KYLKSSSKYIA
1 -----
201 WPLQGWQATF GGGDHPPKSD PMGHHHHHHG RRRASVAAGI LVPRGSPGLD GICSRNS
201 WPLQGWQATF GGGDHPPKSD PMGHHHHHHG RRRASVAAGI LVPRGSPGLD GICSRNSMSS GTMKFNGYLR VRIGEAVGLQ PTRWSLRHSL FKKGHQLLDP
1 -----MSS GTMKFNGYLR VRIGEAVGLQ PTRWSLRHSL FKKGHQLLDP
245
301 YLTVSVDQVR VGQTSTKQKT NKPTYNEEFC ANVTDGGHLE LAVFHETPLG YDHFVANCTL QFQELLRTTG ASDTFEGWVD LEPEGKVFV ITLTGSFTEA
41 YLTVSVDQVR VGQTSTKQKT NKPTYNEEFC ANVTDGGHLE LAVFHETPLG YDHFVANCTL QFQELLRTTG ASDTFEGWVD LEPEGKVFV ITLTGSFTEA
245
401 TLQRDRIFKH FTRKRQRAMR RRVHQINGHK FMATYLRQPT YCSHCREFIW GVFGKQGYQC QVCTCVVHKR CHHLIVTACT CQNNINKVDS KIAEQRFGIN
141 TLQRDRIFKH FTRKRQRAMR RRVHQINGHK FMATYLRQPT YCSHCREFIW GVFGKQGYQC QVCTCVVHKR CHHLIVTACT CQNNINKVDS KIAEQRFGIN
245
501 IPHKFSIHNY KVPTFCDHCG SLLWGIMRQG LQCKICKMNW HIRCOANVAP NCGVNAVELA KTLAGMGLQP GNISPTSCLV SRSTLRRQSK ESSKEGNGIG
241 IPHKFSIHNY KVPTFCDHCG SLLWGIMRQG LQCKICKMNW HIRCOANVAP NCGVNAVELA KTLAGMGLQP GNISPTSCLV SRSTLRRQSK ESSKEGNGIG
245
601 VNSSNRLGID NFEFIRVLGK GSGFKVMRLR VKETGDLYAV KVLKGDVILQ DDDVECTMTE KRILSLARNH PFLTQLFCCF QTPDRLFFVM EFNNGGDLMF
341 VNSSNRLGID NFEFIRVLGK GSGFKVMRLR VKETGDLYAV KVLKGDVILQ DDDVECTMTE KRILSLARNH PFLTQLFCCF QTPDRLFFVM EFNNGGDLMF
245
701 HIQSRRFDE ARARFYAAEI ISALMFLHDK GIIRDLKLD NVLLDHEGHC KLADFGMCKE GICNGVTTAT FCGTPDYIAP EILQEMLYGP AVDWWAMGVL
441 HIQSRRFDE ARARFYAAEI ISALMFLHDK GIIRDLKLD NVLLDHEGHC KLADFGMCKE GICNGVTTAT FCGTPDYIAP EILQEMLYGP AVDWWAMGVL
245
801 LYEMLCGHAP FEAENEDDLF EAILNDEVVY PTWLHEDATG ILKSFMTKNP TMLRGLSTQG GEHAILRHFP FKEIDWAQLN HRQIEPPFRP RIKSREDVSN
541 LYEMLCGHAP FEAENEDDLF EAILNDEVVY PTWLHEDATG ILKSFMTKNP TMLRGLSTQG GEHAILRHFP FKEIDWAQLN HRQIEPPFRP RIKSREDVSN
245
901 FDPDFIKEEP VLTPIDEGLH PMINQDEFNR FSYVSPQLQ
641 FDPDFIKEEP VLTPIDEGLH PMINQDEFNR FSYVSPQLQ

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* highlighted residues denote differences from the reference protein sequence(s).

Rachel Smith

Rachel Smith, Manager, QA/QC

Date: 23/Dec/2021

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