

Division of Signal Transduction Therapy

Clone Data Sheet

PKC alpha [1 - 672]

<u>Protein</u>	PKC alpha [1 - 672]
<u>Clone number</u>	DU 5084
<u>Species</u>	Human
<u>Accession number</u>	NM_002737
<u>Tags</u>	N-terminal His(6)
<u>Baculovirus expressed protein</u>	<p>MSYHHHHHHHDYDIPTTENLYFQGGAMDPDEFMADVFPGNDSTASQDVANR FARKGALRQKNVHEVKDHKFIARFFKQPTFC SHCTDFIWGF GKQGFQCQ VCCFVVHKRCHEFVTFSCPGADKGPDTDDPRSKHKFKIHTYGSPTFCDH CGSLLYGLIHQGMKCDTCDMNVHKQCVINVPSLCGMDHTEKRGRIYLKA EVADEKLHVTVRDAKNLIPMDPNGLSDPYVKLKLIPDPKNESKQKTKTI RSTLNPQWNESFTFKLKPSDKDRRLSVEIWDWDRTRRNDFMGSLSFQV ELMKMPASGWYKLLNQEEGEYYNVPIPEGDEEGNMELRQKFEKAKLGPA GNKVISPSEDRKQPSNNLDRVKLTDNFNLMVLGKGSFGKVMLADRKGTE ELYAIKILKDVVIQDDDVECTMVEKRVLALLDKPPFLTQLHSCFQTV RLYFVMEYVNGGDLMYHIQQVGGKFKEPQAVFYAAEISIGLFFLHKRGI YRDLKLDNVMLDSEGHIKIADFGMCKEHMMDGVTTRTFCTGTPDYIAPEI IAYQPYGKSVDWWAYGVLLYEMLAGQPPFDGEDEDELQFSIMEHNVSY KSLKSAVSIKGLMTKHPAKRLGCGPEGERDVREHAFFRRIDWEKLEN REIQPPFKPKVCGGAENFDKFFTRGQPVLTTPDQLVIANIDQSDFE GF SYVNPQFVHPILQSAV</p>
<u>Native sequence</u>	<p>Amino acids M1 – V672 (end) of human PKC alpha. Residue M31 of the fusion protein is equivalent to M1 of the native enzyme. The His(6) tag is located at residues 5 – 10.</p>
<u>Protease cleavage</u>	rTEV (ENLYFQG) residues 18 - 24
<u>Cloning sites</u>	<i>Eco</i> R1 and <i>Not</i> I site in pFastBAC HTa

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Nucleotide
sequence of insert

ATGTCGTACTACCATCACCATCACCATCACGATTACGATATCCCAACGA
CCGAAAACCTGTATTTTCAGGGCGCCATGGATCCGGAATTCATGGCTGA
CGTTTTCCCGGGCAACGACTCCACGGCGTCTCAGGACGTGGCCAACCGC
TTCGCCCGCAAAGGGGCGCTGAGGCAGAAGAACGTGCACGAGGTGAAGG
ACCACAAATTCATCGCGCGCTTCTTCAAGCAGCCACCTTCTGCAGCCA
CTGCACCGACTTCATCTGGGGGTTTGGGAAACAAGGCTTCCAGTGCCAA
GTTTGCTGTTTTGTGGTCCACAAGAGGTGCCATGAATTTGTTACTTTTT
CTTGTCCGGGTGCGGATAAGGGACCCGACACTGATGACCCAGGAGCAA
GCACAAGTCAAATCCACACTTACGGAAGCCCACCTTCTGCGATCAC
TGTGGGTCACTGCTCTATGGACTTATCCATCAAGGGATGAAATGTGACA
CCTGCGATATGAACGTTACAAGCAATGCGTCATCAATGTCCCCAGCCT
CTGCGGAATGGATCACACTGAGAAGAGGGGGCGGATTTACCTAAAGGCT
GAGTTGCTGATGAAAAGCTCCATGTACAGTACGAGATGCAAAAAATC
TAATCCCTATGGATCCAAACGGGCTTTCAGATCCTTATGTGAAGCTGAA
ACTTATTCCTGATCCCAAGAATGAAAGCAAGCAAAAAACCAAACCATC
CGCTCCACACTAAATCCGCAGTGGAAATGAGTCCTTTACATTCAAATTGA
AACCTTCAGACAAAGACCGACGACTGTCTGTAGAAATCTGGGACTGGGA
TCGAACAACAAGGAATGACTTCATGGGATCCCTTTCCTTTGGAGTTTCG
GAGCTGATGAAGATGCCGGCCAGTGGATGGTACAAGTTGCTTAACCAAG
AAGAAGGTGAGTACTACAACGTACCCATTCCGGAAGGGGACGAGGAAGG
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GGCAACAAAGTCATCAGTCCCTCTGAAGACAGGAAACAACCTTCCAACA
ACCTTGACCGAGTGAAACTCACGGACTTCAATTTCCCTCATGGTGTGGG
AAAGGGGAGTTTTGGAAAGGTGATGCTTGCCGACAGGAAGGGCACAGAA
GAACTGTATGCAATCAAATCCTGAAGAAGGATGTGGTGATTCAGGATG
ATGACGTGGAGTGCACCATGGTAGAAAAGCGAGTCTTGGCCCTGCTTGA
CAAACCCCGTTCTTGACGCAGCTGCACTCCTGCTTCCAGACAGTGGAT
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ACATTCAGCAAGTAGGAAAATTTAAGGAACCACAAGCAGTATTCTATGC
GGCAGAGATTTCCATCGGATTGTTCTTTCCTTATAAAAAGAGGAATCATT
TATAGGGATCTGAAGTTAGATAACGTTCATGTTGGATTCAGAAGGACATA
TCAAATGCTGACTTTGGGATGTGCAAGGAACACATGATGGATGGAGT
CACGACCAGGACCTTCTGTGGGACTCCAGATTATATCGCCCAGAGATA
ATCGCTTATCAGCCGTATGGAAAATCTGTGGACTGGTGGGCCTACGGCG
TCCTGTTGTATGAAATGCTTGCCGGGCAGCCTCCATTTGATGGTGAAGA
TGAAGACGAGCTATTTCAAGTCTATCATGGAGCACAACGTTTCCCTATCCA
AAATCCTTGTCCAAGGAGGCTGTTTCTATCTGCAAAGGACTGATGACCA
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GAGAGAGCATGCCTTCTTCCGGAGGATCGACTGGGAAAAACTGGAGAAC
AGGGAGATCCAGCCACCATTCAAGCCCAAAGTGTGTGGCAAAGGAGCAG
AGAACTTTGACAAGTTCTTACACGAGGACAGCCCGTCTTAACACCACC
TGATCAGCTGGTTATTGCTAACATAGACCAGTCTGATTTTGAAGGGTTC
TCGTATGTCAACCCCAAGTTTGTGCACCCCATCTTACAGAGTGCAGTA

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