

AKT1, 1-480aa, Human, His tag, E.coli

Cat.NO.: TP01115

3th Edition

Synonyms:RAC-alpha serine/threonine-protein kinase, AKT, CWS6, PKB, PKB-ALPHA, PRKBA, RAC, RAC-ALPHA

Description:AKT1 serine-threonine protein kinase is catalytically inactive in serum-starved primary and immortalized fibroblasts. AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin homology domain of AKT1. It was shown that the activation occurs through phosphatidylinositol 3-kinase. In the developing nervous system AKT is a critical mediator of growth factor-induced neuronal survival. Recombinant human AKT1 protein, fused to His-tag at N-terminus, was expressed in E.coli.

Form:Liquid. In 20mM Tris-HCl (pH8.0) containing 10% glycerol

Molecular Weight:58.1kDa (503aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMDSVAIVKEGWLHKRGEYIKTWRPRYFLLKNDGTFIGYKERPQDQDQREAP
LNNFSVAQCQLMKTERPRPNTFIIRCLQWTTVIERTFHVETPEEREEWTTAIQTVADGLKKQEEEEEMDFRSGSPSD
NSGAEEMEVSLAKPKHRVTMNEFEYLKLLGKGTFGKVLVKEKATGRYYAMKILKKEVIVAKDEVAHTLTENRVLQN
SRHPFLTALKYSFQTHDRLCFVMEYANGGELFFHLSRERVFSEDRARFYGAEIVSALDYLHSEKNVVYRDLKLENL
MLDKDGHKITDFGLCKEGIKDGATMKTFCGTPEYLAPEVLEDNDYGRAVDWWGLGVVMYEMMCGRLPFYNQDH
EKLFEILMEEIRFPRTLGPPEAKSLLSGLLKDPKQRLGGGSEDAKEIMQHRFFAGIVWQHVVYEKKLSPPFKPQVTS
ETDTRYFDEEFTAQMITITPPDQDDSMCEVDSERRPHFPQFSYSASGTA

Purity:> 95% by HPLC

Concentration:0.5mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.