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32-6955: AKT1 Human

Alternative Name :	V-Akt Murine Thymoma Viral Oncogene Homolog 1, Protein Kinase B Alpha, Proto-Oncogene C-Akt, RAC-PK-Alpha, EC 2.7.11.1, PKB Alpha, CWS6, PKB, RAC, RAC-Alpha Serine/Threonine-Protein Kinase, Rac Protein Kinase Alpha, Protein Kinase B, PKB-ALPHA, RAC-ALPHA, EC 2.7.11, AKT1m, PRKBA, AKT, RAC-alpha serine/threonine-protein kinase.

Description

Source: Escherichia Coli.
Sterile filtered colorless solution.
Akt1, also known as Akt or else protein kinase B (PKB) is an important molecule in mammaliancellular signaling. In humans, there are three genes in the "Akt family": Akt1, Akt2, and Akt3. Moreover, these enzymes are members of the serine/threonine-specific protein kinase family (EC2.7.11.1). Akt1 is involved in cellular survival pathways, by inhibiting apoptoticprocesses. Akt1 is also able to induce protein synthesis pathways, and is therefore a key signaling protein in the cellular pathways which lead to skeletal muscle hypertrophy, and general tissue growth. Since it can block apoptosis, and thereby promote cell survival, Akt1 has been implicated as a most important factor in numerous types of cancer. Akt (now also called Akt1) was at first identified as the oncogenein the transforming retrovirus, AKT8.
AKT1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 503 amino acids (1-480 a.a) and having a molecular mass of 58.1kDa.

Product Info

Amount :	5 µg / 20 µg
Purification :	Greater than 85% as determined by SDS-PAGE.
Content :	AKT1 protein solution (0.5mg/ml) containing 20mM Tris-HCl (pH8.0) and 10% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSMSDVAIV KEGWLHKRGE YIKTWRPRYF LLKNDGTFIG YKERPQDVDQ REAPLNNFSV AQCQLMKTER PRPNTFIIRC LQWTTVIERT FHVETPEERE EWTTAIQTVA DGLKKQEEEE MDFRSGSPSD NSGAEEMEVS LAKPKHRVTM NEFEYLKLLG KGTFGKVILV KEKATGRYYA MKILKKEVIV AKDEVAHTLT ENRVLQNSRH PFLTALKYSF QTHDRLCFVM EYANGGELFF HLSRERVFSE DRARFYGAEI VSALDYLHSE KNVVYRDLKL ENLMLDKDGH IKITDFGLCK EGIKDGATMK TFCGTPEYLA PEVLEDNDYG RAVDWWGLGV VMYEMMCGRL PFYNQDHEKL FELILMEEIR FPRTLGPEAK SLLSGLLKKD PKQRLGGGSE DAKEIMQHRF FAGIVWQHVY EKKLSPPFKP QVTSETDTRY FDEEFTAQMI TITPPDQDDS MECVDSERRP HFPQFSYSAS GTA.

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