

## 32-6956: AKT1 Human, Sf9

**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: Sf9, Baculovirus cells.

Sterile filtered colorless solution.

Akt1, also known as Akt or else protein kinase B (PKB) is an important molecule in mammalian cellular 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 apoptotic processes. 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 oncogene in the transforming retrovirus, AKT8.

AKT1 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 488 amino acids (1-480a.a.) and having a molecular mass of 56.7kDa. (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). AKT1 is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Greater than 90.0% as determined by SDS-PAGE.

**Content :** AKT1 protein solution (0.5mg/ml) contains phosphate buffered saline (pH7.4) and 20% 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 :** MSDVAIVKEG WLHKRGEYIK TWRPRYFLK NDGTFIGYKE RPQDVDQREA PLNNFSVAQC QLMKTERPRP NTFIIRCLQW TTVIERTFHV ETPEEREWT TAIQTVADGL KKQEEEEEMDF RSGSPSDNSG AEEMEVS LAK PKHRVTMNEF EYLLKLGKGT FGKVLVKEK ATGRYYAMKI LKKEVIVAKD EVAHTLTENR VLQNSRHPFL TALKYSFQTH DRLCFVMEYA NGGELFFHLS RERVFSEDRA RFGAEIVSA LDYLHSEKNV VYRDLKLENL MLDKDGHIKI TDFGLCKEGI KDGATMKTFC GTPEYLAPEV LEDNDYGRAV DWWGLGVVMY EMMCGRLPFY NQDHEKLFEL ILMEIRFPR TLGPEAKSLL SGLLKKDPKQ RLGGGSEDAK EIMQHRFFAG IVWQHVVYEKK LSPPFKPQVT SETDTRYFDE EFTAQMITIT PPDQDDSMEC VDSERRPHFP QFSYSASGTA LEHHHHHH.