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**Product Data Sheet**


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Product Name: AKT3 Human

Cat. No.: GP26184

Batch No.: 1

**Product Data**

Purity &gt;98% Source HEK293 Cells.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms RAC-gamma serine/threonine-protein kinase, Protein kinase Akt-3, Protein kinase B gamma, PKB gamma, RAC-PK-gamma, STK-2, AKT3, PKBG.

Amino Acid Sequence  
 MSDVTIVKEG WVQKRGEYIK NWRPRYFLK TDGSFIGYKE KPQDVDLPYP  
 LNNFSVAKCQ LMKTERPKPN TFIIRCLQWT TVIERTFHVD TPEEREEWTE  
 AIQAVADRLQ RQEEERMNCS PTSQIDNIGE EEMDASTTHH KRKTMNDFDY  
 LKLLGKGTFG KVILVREKAS GKYYAMKILK KEVIIAKDEV AHTLTESRVL  
 KNTRHPFLTS LKYSFQTKDR LCFVMEYVNG GELFFHLSRE RVFSEDRTRF  
 YGAEIVSALD YLHSGKIVYR DLKLENLMLD KDGHIKITDF GLCKEGITDA  
 ATMKTFCGTP EYLAPEVLED NDYGRAVDWW GLGVVMYEMM CGRLPFYNQD  
 HEKLFELILM EDIKFPRTL SDAKSLLSGL LIKDPNKRLG GGPDDAKEIM  
 RHSFFSGVNW QDVYDKKLVP PFKPQVTSET DTRYFDEEFT AQTITITPPE  
 KYDEDGMDCM DNERRPHFPQ FSYSASGREH HHHHH.

Formulation The AKT3 solution (0.25mg/ml) contains PBS (pH7.4) and 10% glycerol.

**Introduction**

AKT Serine/Threonine Kinase 3 (Akt3) is a member of the Akt subfamily of serine/threonine protein kinases. Akt3 is 1/3 closely related serine/threonine-protein kinases (Akt1, Akt2 and Akt3) called the Akt kinase and which regulate various processes including proliferation, metabolism, cell survival, growth and angiogenesis. The mentioned above is mediated through serine and/or threonine phosphorylation of a range of downstream substrates. Akt3 takes part in brain development and is critical for the viability of malignant glioma cells.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

**Caution: Product has not been fully validated for medical applications. For research use only.**

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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.

### Background

AKT3 Human Recombinant produced in HEK293 Cells is a single, glycosylated polypeptide chain containing 485 amino acids (1-479a.a) and having a molecular mass of 56.5kDa. AKT3 is fused to a 6 amino acid His-tag at C-terminus and is purified by proprietary chromatographic techniques.

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