

Recombinant human Akt3 protein

Catalog Number: ATGP4061

PRODUCT INFORMATION

Expression system

HEK293

Domain

1-479aa

UniProt No.

Q9Y243

NCBI Accession No.

NP_005456.1

Alternative Names

RAC-gamma serine/threonine-protein kinase, Protein kinase Akt-3, Protein kinase B gamma, PKB gamma, RAC-PK-gamma, STK-2, RAC-gamma serine/threonine-protein kinase isoform 1, v-akt murine thymoma viral oncogene homolog 3, MPPH, MPPH2, PKB-GAMMA, PKBG, PRKBG, RAC-gamma, AKT serine/threonine kinase 3

PRODUCT SPECIFICATION

Molecular Weight

56.5kDa (485aa)

Concentration

0.25mg/ml (determined by Absorbance at 280nm)

Formulation

Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS - PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Akt3, also known as RAC-gamma serine/threonine-protein kinase, is a member of the Akt subfamily of serine/threonine protein kinases. It is one of 3 closely related serine/threonine-protein kinases (Akt1, Akt2 and

Recombinant human Akt3 protein

Catalog Number: ATGP4061

Akt3) called the Akt kinase, and which regulate many processes including metabolism, proliferation, cell survival, growth and angiogenesis. Also this is mediated through serine and/or threonine phosphorylation of a range of downstream substrates. Akt3 is the least studied Akt isoform. It plays an important role in brain development and is crucial for the viability of malignant glioma cells. Recombinant human Akt3, fused to His-tag at C-terminus, was expressed in HEK293 and purified by using conventional chromatography techniques.

Amino acid Sequence

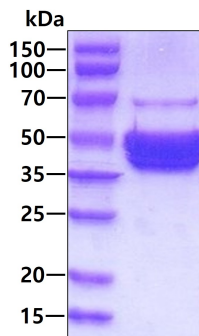
MSDVTIVKEG WVQKRGEYIK NWRPRYFLLK TDGSFIGYKE KPQDVDLPYP LNNFSVAKCQ LMKTERPKPN TFIIRCLQWT TVIERTFHVD TPEEREWTE AIQAVADRLQ RQEEERMNCS PTSQIDNIGE EEMDASTTHH KRKTMNDFDY LKLLGKGTFG KVILVREKAS GKYYAMKILK KEVIAKDEV AHLTESRVL KNTRHPFLTS LKYSFQTKDR LCFVMEYVNG GELFFHLSRE RVFSEDRTRF YGAEIVSALD YLHSGKIVYR DLKLENMLD KDGHIKITDF GLCKEGITDA ATMKTFCGTP EYLAPEVLED NDYGRAVDWW GLGVVMYEMM CGRLPFYNQD HEKLFELILM EDIKFPRTLS SDAKSLLSGL LIKDPNKRLG GGPDDAKEIM RHSFFSGVNW QDVYDKKLVP PFKPQVTSET DTRYFDEEFT AQTITITPPE KYDEDGMDCM DNERRPHFPQ FSYSASGRE<HHHHH>

General References

Nakatani K., et al, (1999) J. Biol. Chem. 274: 21528-21532.
Brodbeck D., et al, (1999) J. Biol. Chem. 274: 9133-9136.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain