

Product datasheet for **TP507672**

Akt3 (NM_011785) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse thymoma viral proto-oncogene 3 (Akt3), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR207672 protein sequence Red =Cloning site Green =Tags(s)

MSDVTIVKEGWVQKRGEYIKNWRPRYFLLKTDGSGFIGYKEKPQDVLDPYPLNNFSVAKCQLMKTERPKPN
TFIIRCLQWTTVIERTFHVDTPEREWEWTEAIQAVADRLQRQEEERMNCSPASQIDNIGEEEMDASTTHH
KRKTMNDFDYLKLLGKGTFGKVLVREKASGKYAMKILKKEVIAKDEVAHTLTESRVLKNTRHPFLTS
LKYSFQTKDRLCFVMEYVNGGELFFHLSRERVFSEDRTRFYGAIEVSALDYLHSGKIVYRDLKLENMLD
KDGHIKITDFGLCKEGITDAATMKTFCGTPEYLAPEVLEDNDYGRAVDWWGLGWVYEMMCGRLPFYNQD
HEKLFELILMEDIKFPRTLSSDAKSLLSGLLIKDPNKRLLGGGPDDAKEIMRHSFFSGVNWQDVYDKLVP
PFKPQVTSETDTRYFDEEFTAQTITITPPEKYDDDGMDSERRPHFPQFSYSASGRE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	55.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_035915
Locus ID:	23797



[View online »](#)

UniProt ID: [Q9WUA6](#), [Q8C6X4](#)

RefSeq Size: 4735

Cytogenetics: 1 H4

RefSeq ORF: 1440

Synonyms: AI851531; D930002M15Rik; Nmf350

Summary: AKT3 is one of 3 closely related serine/threonine-protein kinases (AKT1, AKT2 and AKT3) called the AKT kinase, and which regulate many processes including metabolism, proliferation, cell survival, growth and angiogenesis. This is mediated through serine and/or threonine phosphorylation of a range of downstream substrates. Over 100 substrate candidates have been reported so far, but for most of them, no isoform specificity has been reported. 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. AKT3 isoform may also be the key molecule in up-regulation and down-regulation of MMP13 via IL13. Required for the coordination of mitochondrial biogenesis with growth factor-induced increases in cellular energy demands. Down-regulation by RNA interference reduces the expression of the phosphorylated form of BAD, resulting in the induction of caspase-dependent apoptosis.[UniProtKB/Swiss-Prot Function]