

Recombinant Human AKT3 Protein, His-tagged

Cat. No. AKT3-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Akt3 (1-479aa, 485aa), fused to His-tag at C terminus, was expressed in HEK293 and purified by using conventional chromatography techniques.
Species	Human
Source	HEK293
ProteinLength	1-479 a.a.
Description	The protein encoded by this gene is a member of the AKT, also called PKB, serine/threonine protein kinase family. AKT kinases are known to be regulators of cell signaling in response to insulin and growth factors. They are involved in a wide variety of biological processes including cell proliferation, differentiation, apoptosis, tumorigenesis, as well as glycogen synthesis and glucose uptake. This kinase has been shown to be stimulated by platelet-derived growth factor (PDGF), insulin, and insulin-like growth factor 1 (IGF1). Alternatively splice transcript variants encoding distinct isoforms have been described.
Form	Liquid
Molecular Mass	56.5 kDa
AA Sequence	MSDVTIVKEGWVQKRGEYIKNWRPRYFLLKTDGSFIGYKEKPQDVDLPYPLNNFSV AKCQLMKTERPKPNTFIIRCLQWTTVIERTFHVDTPEEREWEWTEAIQAVADRLQRQE EERMNCSPTSQIDNIGEEEMDASTTHHKRKTMNDFDYLKLLGKGTGFKVILVREKAS

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GKYYAMKILKKEVIIAKDEVAHTLTESRVLKNTRHPFLTSLKYSFQTKDRLCFVMEYV
 NGGELFFHLSRERVFSEDRTRFYGAIEVSALDYLSHGKIVYRDLKLENLMLDKDGHK
 ITDFGLCKEGITDAATMKTFCGTPEYLAPEVLEDNDYGRAVDWWGLGVVMEYMMC
 GRLPFYNQDHEKLFELILMEDIKFPRTLSSDAKSLLSGLLIKDPNKRLGGGPDDAKEI
 MRHSFFSGVNWQDVYDKKLVPFPKPQVTSETDTRYFDEEFTAQTITITPPEKYDEDG
 MDCMDNERRPHFPQFSYSASGRE

Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/mL (determined by Absorbance at 280nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

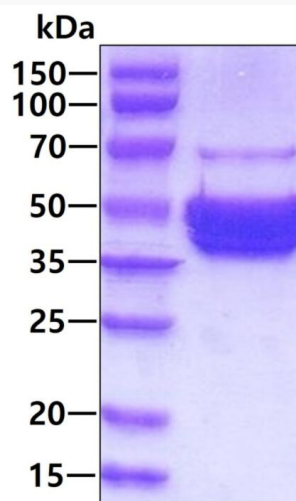
Gene Name	AKT3 AKT serine/threonine kinase 3 [Homo sapiens (human)]
Official Symbol	AKT3
Synonyms	AKT3; AKT serine/threonine kinase 3; MPPH; PKBG; MPPH2; PRKBG; STK-2; PKB-GAMMA; RAC-gamma; RAC-PK-gamma; RAC-gamma serine/threonine-protein kinase; PKB gamma; RAC-gamma serine/threonine protein kinase; v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma); EC 2.7.11.1

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Gene ID	10000
mRNA Refseq	NM_005465
Protein Refseq	NP_005456
MIM	611223
UniProt ID	Q9Y243

SDS-PAGE


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