

Human CellExp™ Akt1 Protein (His Tagged & Strep Tagged), human recombinant

CATALOG NO. :	7886-10	10 µg
	7886-25	25 µg
ALTERNATE NAMES:	RAC-alpha serine/threonine-protein kinase, AKT1, PKB, RAC, RAC-PK-alpha, PKB alpha, Proto-oncogene cAkt	
SOURCE:	HEK293 cells (Met 1 - Ala 480)	
PURITY:	>92% by SDS-PAGE.	
MOL. WEIGHT:	60 kDa with Twin Strep tagged polyhistidine at the C-terminus. DTT-reduced Protein migrates as 60 - 66 kDa in SDS-PAGE due to glycosylation.	
ENDOTOXIN LEVEL:	< 1.0 EU/µg of the protein by the LAL method.	
FORM:	Lyophilized	

FORMULATION: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization.

STORAGE CONDITIONS: Store at 4°C for 1 year in lyophilized. After reconstitution, aliquot and store at -70°C for up to 3 months. Avoid repeated freezing and thawing cycles.

RECONSTITUTION: Centrifuge the vial prior to opening. Reconstitute in sterile deionized water to a stock solution of 200 µg/mL. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% (W/V) HSA or BSA) is recommended for further dilution and long term storage.

DESCRIPTION: AKT1 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. AKT regulates also the storage

of glucose in the form of glycogen by phosphorylating GSK3A at 'Ser-21' and GSK3B at 'Ser-9', resulting in inhibition of its kinase activity.



The purity of Human Akt1 protein was determined by DTT-reduced (+) SDS-PAGE and staining overnight with Coomassie Blue.

RELATED PRODUCTS:

- Active Akt1 (Cat No. 7701-5, -100)
- AKT1 (T450) Antibody (CT) (Cat No. 6743-100)
- AKT1 (Thr308) Antibody (Cat No. 6742-100)
- AKT1 Antibody (CT) (Cat No. 6744-100)
- AKT1 Antibody (NT) (Cat No. 6745-100)
- GDC-0068 (Cat No. 2667-1, -5)

FOR RESEARCH USE ONLY! Not to be used in humans.