

p70S6K recombinant protein

p70S6K, Unactive recombinant protein

CATALOG # AAA14251	HOST Sf9 insect cells	APPLICATIONS SDS-Page
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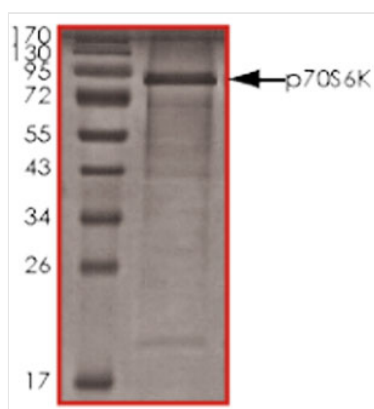
PRODUCT SYNONYMS

p70S6K; Unactive recombinant protein; S6K; PS6K; S6K1; STK14A; RPS6KB1; p70-alpha; p70(S6K)-alpha; p70S6K recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Purity/Purification	>90%
Form/Format	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Concentration	0.1 ug/ml (varies by lot)
Sequence Length	5368
Applicable Applications for p70S6K recombinant protein	SDS-PAGE
Type	Recombinant Fusion Protein
Species	Human
Tag Information	N Terminal HIS TAG
Expression System	Sf9 insect cells using baculovirus
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Ships with dry ice Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE

The purity of p70S6k was determined to be >90% by densitometry, approx. MW 76kDa

ADDITIONAL INFORMATION

Related Product Information for p70S6K recombinant protein	Recombinant full-length human p70S6K was expressed by baculovirus in Sf9 insect cells using an N-terminal His tag. Scientific Background: p70S6K is responsible for the phosphorylation of 40S ribosomal protein S6 and is ubiquitously expressed in human adult tissues (1). p70S6K is activated by serum stimulation and this activation is inhibited by wortmannin and rapamycin. p70S6k activity undergoes changes in the cell cycle and increases 20-fold in G1 cells released from G0 (2). p70S6K activation requires sequential phosphorylations at proline-directed residues in the putative autoinhibitory pseudosubstrate domain, as well as threonine 389 a site phosphorylated by phosphoinositide-dependent kinase 1 (PDK-1).
Product Categories/Family for p70S6K recombinant protein	Unactive Kinase; Signaling Proteins - Unactive Kinases
References	1. Ferrari, S. et al: S6 phosphorylation and the p70s6k/p85s6k. Crit Rev Biochem Mol Biol. 1994;29(6):385-413. Review. 2. Edelman, HM. Et al: Cell cycle regulation of p70 S6 kinase and p42/p44 mitogen-activated protein kinases in Swiss mouse 3T3 fibroblasts. J Biol Chem. 1996 Jan 12;271(2):963-71.

NCBI AND UNIPROT INFORMATION

NCBI GI #	440546393
NCBI GeneID	6198
NCBI Accession #	NP_003152.1
NCBI GenBank Nucleotide #	NM_003161
UniProt Accession #	P23443
Molecular Weight	~76 kDa
NCBI Official Full Name	Homo sapiens ribosomal protein S6 kinase, 70kDa, polypeptide 1 (RPS6KB1), transcript variant 1, mRNA
NCBI Official Synonym Full Names	ribosomal protein S6 kinase, 70kDa, polypeptide 1
NCBI Official Symbol	RPS6KB1
NCBI Official Synonym Symbols	S6K; PS6K; S6K1; STK14A; p70-S6K; p70 S6KA; p70-alpha; S6K-beta-1; p70(S6K)-alpha
NCBI Protein Information	ribosomal protein S6 kinase beta-1; p70 S6 kinase, alpha; ribosomal protein S6 kinase I; serine/threonine kinase 14 alpha; serine/threonine-protein kinase 14A
UniProt Protein Name	Ribosomal protein S6 kinase beta-1
UniProt Gene Name	RPS6KB1
UniProt Synonym Gene Names	STK14A; S6K-beta-1; S6K1; P70S6K1; p70-S6K 1; p70 S6 kinase alpha; p70 S6K-alpha; p70 S6KA
UniProt Entry Name	KS6B1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.