32-6997: PRKAA1 Human

Alternative Name :	5'-AMP-activated protein kinase catalytic subunit alpha-1, Protein Kinase, AMP-Activated, Alpha 1, PRKAA1, AMPK subunit alpha-1, Acetyl-CoA carboxylase kinase, ACACA kinase, Hydroxymethylglutaryl-CoA reductase kinase, HMGCR kinase, Tau-protein kinase PRKAA1, AMPK1, 5-AMP-activated protein kinase catalytic subunit alpha-1 isoform 1, AMPK, AMPKa11.

Description

Source: E.coli.

Sterile Filtered colorless solution.

Protein Kinase, AMP-Activated, Alpha 1 (PRKAA1) is a protein coding gene which is the catalytic subunit of AMPK. AMPK is an energy sensor protein kinase which regulates cellular energy metabolism. AMPK adjusts the activity of various important metabolic enzymes by direct phosphorylation. Among its other features, AMPK protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways.

PRKAA1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 302 amino acids (1-279a.a) and having a molecular mass of 34.3kDa.PRKAA1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Product Info

Amount :	5 µg / 20 µg
Purification :	Greater than 85% as determined by SDS-PAGE.
Content :	PRKAA1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0) and 10% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSMRRLSSW RKMATAEKQK HDGRVKIGHY ILGDTLGVGT FGKVKVGKHE LTGHKVAVKI LNRQKIRSLD VVGKIRREIQ NLKLFRHPHI IKLYQVISTP SDIFMVMEYV SGGELFDYIC KNGRLDEKES RRLFQQILSG VDYCHRHMVV HRDLKPENVL LDAHMNAKIA DFGLSNMMSD GEFLRTSCGS PNYAAPEVIS GRLYAGPEVD IWSSGVILYA LLCGTLPFDD DHVPTLFKKI CDGIFYTPQY LNPSVISLLK HMLQVDPMKR ATIKDIREHE WF.