

32-3099: PRKAB1 Recombinant Protein

Alternative Name : AMPK,HAMPKb,5'-AMP-activated protein kinase subunit beta-1,AMPK subunit beta-1,AMPKb,PRKAB1.

Description

Source : E.coli. PRKAB1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 293 amino acids (1-270 a.a.) and having a molecular mass of 32.8 kDa. The PRKAB1 is fused to a 23 amino acid His Tag at N-Terminus and purified by proprietary chromatographic techniques. 5'-AMP-activated protein kinase subunit beta-1 (PRKAB1) hinders protein, carbohydrate and lipid biosynthesis, in addition to cell growth and proliferation. AMPK is a heterotrimer comprised of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. AMPK acts via direct phosphorylation of metabolic enzymes, and longer-term effects by phosphorylation of transcription regulators. PRKAB1 is a regulator of cellular polarity by remodeling the actin cytoskeleton; most likely by indirectly activating myosin. Beta non-catalytic subunit acts as a scaffold on which the AMPK complex compiles, through its C-terminus that joins alpha (PRKAA1 or PRKAA2) and gamma subunits (PRKAG1, PRKAG2 or PRKAG3).

Product Info

Amount :	5 µg
Purification :	Greater than 85% as determined by SDS-PAGE.
Content :	The PRKAB1 protein solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.
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 MGSMGNTSSE RAALERHGGH KTPRRDSSGG TKDGRPKIL MDSPEDADLF HSEEIKAPEK EEFLAWQHDL EVNDKAPAQA RPTVFRWTGG GKEVYLSGSF NNWSKLPLTR SHNNFVAILD LPEGEHQYKF FVDGQWTHDP SEPIVTSQLG TVNNIIQVKK TDFEVFDALM VDSQKCS DVS ELSSSPGPY HQEPYVCKPE ERFRAPPILP PHLLQVILNK DTGISCDPAL LPEPNHVMLN HLYALSIKDG VMVLSATHRY KKKYVTTLLY KPI

