

PRKAB1, 1-270aa, Human, His tag, E.coli

Cat.NO.: TP03520

3th Edition

Synonyms:5'-AMP-activated protein kinase subunit beta-1, AMPK, HAMPKb

Description:5'-AMP-activated protein kinase subunit beta-1, also known as PRKAB1, inhibits protein, carbohydrate and lipid biosynthesis, as well as cell growth and proliferation. AMPK acts via direct phosphorylation of metabolic enzymes, and by longer-term effects via phosphorylation of transcription regulators. Also acts as a regulator of cellular polarity by remodeling the actin cytoskeleton; probably by indirectly activating myosin.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Molecular Weight:32.8 kDa (293aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSMGNTSSERAALERHGGHKTPRRDSSGGTKDGDPRKILMDSPEDADLFHSE
EIKAPEKEEFLAWQHDLEVNDKAPAQARPTVFRWTGGGKEVYLSGSFNNWSKLPLTRSHNNFVAILDLPEGEHQY
KFFVDGQWTHDPSEPIVTSQLGTVNNIIQVKKTD FEVFDALMVDSQKCSDVSELSSSPPGPYHQEPYVCKPEERFR
APPILPPHLLQVILNKDTGISCDPALLPEPNHVMLNHLIALSIKDGVMVLSATHRYKKKYVTLLYKPI

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.