

PRKAG1, 1-331aa, Human, His tag, E.coli

Cat.NO.: TP03524

3th Edition

Synonyms:5'-AMP-activated protein kinase subunit gamma-1 isoform 1, AMPKG

Description:5'-AMP-activated protein kinase subunit gamma-1 isoform 1, also known as PRKAG1, is a regulatory subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy status. This subunit is one of the gamma regulatory subunits of AMPK. Alternatively spliced transcript variants encoding distinct isoforms have been observed. Recombinant human PRKAG1 protein, fused to His-tag at N-terminus, was expressed in E.coli.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

Molecular Weight:40 kDa (354aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMETVISSDSSPAVENEHPQETPESNNSVYTSFMKSHRCYDLIPTSSKLVVFD
TSLQVKKAFFALVTNGVRAAPLWDSKKQSFVGMILTITDFINILHRYYSALVQIYELEEHKIETWREVYQLQDSFKPLV
CISPNASLFDVSSLRNKHRLPVIDPESGNTLYILTHKRILKFLKLFITEFPKPEFMSKSLEELQIGTYANIAMVRTTTP
VYVALGIFVQHRVSALPVVDEKGRVVDIYSKFDVINLAAEKTYNNLDVSVTKALQHRSHYFEGVLKCYLHETLETIINR
LVEAEVHRLVVVDENDVVKGIVSLSDILQALVLTGGEEKP

Purity:> 95% by HPLC

Concentration:0.25 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.