

Product information



PRKAB1, 1-270aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1786

Full name: 5'-AMP-activated protein kinase subunit beta-1

NCBI Accession No.: NP_006244

Synonyms: AMPK, HAMPKb

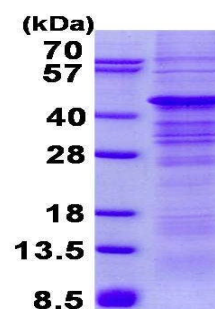
Description: 5'-AMP-activated protein kinase subunit beta-1, also known as PRKAB1, inhibits protein, carbohydrate and lipid biosynthesis, as well as cell growth and proliferation. AMPK acts via direct phosphorylation of metabolic enzymes, and by longer-term effects via phosphorylation of transcription regulators. Also acts as a regulator of cellular polarity by remodeling the actin cytoskeleton; probably by indirectly activating myosin. Beta non-catalytic subunit acts as a scaffold on which the AMPK complex assembles, via its C-terminus that bridges alpha (PRKAA1 or PRKAA2) and gamma subunits (PRKAG1, PRKAG2 or PRKAG3). Recombinant human PRKAB1 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

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
(Molecular size on SDS-PAGE will appear higher)

Purity: > 85% by SDS - PAGE

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



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHHH SSSLVPRGSH MGSMTNTSSE RAALERHGGH KTPRRDSSGG TKDGRPKIL MDSPEDADLF HSEEIKAPEK EEFLAWQHD
EVNDKAPAQA RPTVFRWTGG GKEVYLSGSF NNWSKLPLTR SHNNFVAILD LPEGEHQYKF FVDGQWTHDP SEPIVTSQLG TVNNIIQVKK
TDFEVFDALM VDSQKCSQVS ELSSSPGPY HQEPYVCKPE ERFRAPPILP PHLLQVILNK DTGISCDPAL LPEPNHVMLN HLYALSIKDG
VMVLSATHRY KKKYVTTLLY KPI

General references:

Hardie D.G., *et al.* (2007) *Nat. Rev. Mol. Cell Biol.* 8:774-785

Towler M.C., *et al.* (2007) *Circ. Res.* 100:328-341

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

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