

## PRKAB1 Protein, Mouse, Recombinant (His)

### General Information

Synonyms:	5'-AMP-activated protein kinase subunit beta-1;AMPK subunit beta-1;AMPKb;Prkab1
Protein Construction:	2-270 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	Q9R078
Molecular Weight:	36.1 kDa (predicted)
AA Sequence:	GNTSSERAALERQAGHKTPRRDSSGGAKDGDPRKILMDSPEDADIFHSEEIKAPEKEEFLAWQHDLEANDKA PAQARPTVFRWTGGGKEVYLSGSFNWWSKLPLTRSQNNFVAILDLPEGEHQYKFFVDGQWTHDPSEPIVTSQ LGTVNNIIQVKKTDFEVFDALMVDSQKCSDVSELSSPPGPYHQEPYMSKPEERFKAPPILPPHLLQVILNKDT GISCDPALLPEPNHVMLNHLIALSIKDGVMVLSATHRYKKKYVTTLLYKPI

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

*Actual storage temperature shall be subject to the COA.*

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Non-catalytic subunit of AMP-activated protein kinase (AMPK), an energy sensor protein kinase that plays a key role in regulating cellular energy metabolism. In response to reduction of intracellular ATP levels, AMPK activates energy-producing pathways and inhibits energy-consuming processes: inhibits protein, carbohydrate and lipid biosynthesis, as well as cell growth and proliferation. AMPK acts via direct phosphorylation of metabolic enzymes,

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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).

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