Active Recombinant Full Length Human PRKAA1 / AMPK (A1/B2/G1)Protein, GST-tagged

Cat. No. PRKAA1-8419HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full-length human AMPKα1 [1-550(end) amino acids of accession number NP_006242.4] was co- expressed as N-terminal GST-fusion protein (90 kDa) with GST-PRKAB2 [1-272(end) amino acids of accession number NP_005390.1] and PRKAG1 [1-331(end) amino acids of accession number NP_002724.1] using baculovirus expression system. GST-AMPKα1/β2/γ1 was purified by using glutathione sepharose chromatography and activated with His-tagged CaMKK1. Activated GST- AMPKα1/β2/γ1 was purified using glutathione sepharose chromatography.
Species	Human
Source	Sf21 Cells
ProteinLength	1-550(end)
Form	50 mM Tris-HCl, 150 mM NaCl, 0.05% Brij35, 1 mM DTT, 10% glycerol, pH7.5
Bio-activity	The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluorecence-labeled substrate and Mg(or Mn)/ATP. The phosphorylated and unphosphorylated substrates were separated and detected by LabChip™3000.
Purity	98%

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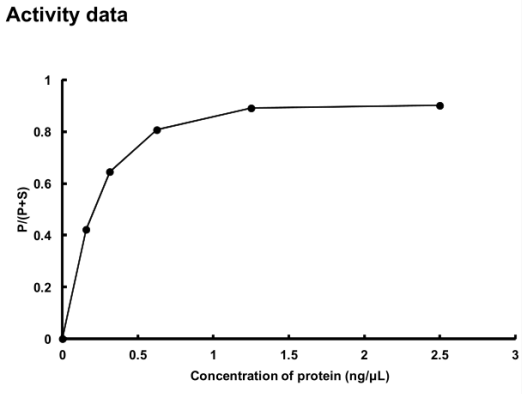
Applications	SDS-PAGE
Storage	Store at -80C. Avoid repeating freeze-thaws.

GENE INFORMATION

Gene Name	protein kinase, AMP-activated, alpha 1 catalytic subunit
Official Symbol	PRKAA1
Synonyms	PRKAA1;AMPK;AMPKa1
Protein Refseq	NP_006242.4
UniProt ID	Q13131
Activity data	 The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluorecence-labeled substrate and Mg(or Mn)/ATP. The phosphorylated and unphosphorylated substrates were separated and detected by LabChip™3000.

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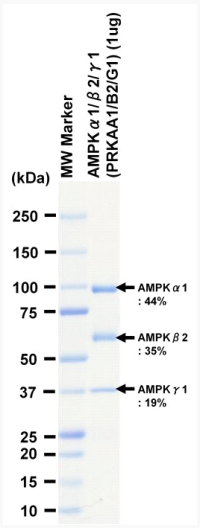
SDS-PAGE	 The purity was assessed by SDS-PAGE/CBB staining.

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