

Active Recombinant Human PRKAG1 & PRKAB1 & PRKAA1 Protein, His-GST-tagged

Cat. No. PRKAG1 & PRKAB1 & PRKAA1-1237H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PRKAG1 (P54619) (Met 1-Pro 331), constructed the plasmid 1; Recombinant human PRKAB1 (Q9Y478) (Met 1-Ile 270), constructed the plasmid 2; Recombinant human PRKAA1 (Q13131-1) (Met 1-Gln 559) was fused with the N-terminal polyhistidine-tag
Species	Human
Source	Insect Cells
ProteinLength	1-331;1-270 a.a.
Predicted N Terminal	Met & Met & His
Form	Supplied as sterile 50mM Tris, 200mM NaCl, 2mM GSH, 1mM EDTA, 1mM DTT, 10% gly, pH 7.4.
Bio-activity	The specific activity was determined to be 6 nmol/min/mg using synthetic SAMS peptide (HMRSAMSGHLVKRR) as substrate.
Molecular Mass	The recombinant heterotrimer of human AMPK (PRKAG1 / PRKAB1 / PRKAA1) has a calculated molecular mass of 160 (38+30+92) KDa. The apparent molecular mass is approximately 38, 40 & 95 KDa respectively in SDS-PAGE under reducing conditions.

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Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Purity	>94 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	PRKAG1 protein kinase, AMP-activated, gamma 1 non-catalytic subunit [Homo sapiens]
Official Symbol	PRKAG1
Synonyms	PRKAG1; protein kinase, AMP-activated, gamma 1 non-catalytic subunit; 5-AMP-activated protein kinase subunit gamma-1; AMPK gamma1; AMPK gamma-1 chain; 5-AMP-activated protein kinase, gamma-1 subunit; AMPKG; MGC8666;
Gene ID	5571
mRNA Refseq	NM_001206709
Protein Refseq	NP_001193638
MIM	602742
UniProt ID	P54619
Chromosome	12q12-q14

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Location	
Pathway	AMPK signaling, organism-specific biosystem; Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Energy Metabolism, organism-specific biosystem; Energy dependent regulation of mTOR by LKB1-AM
Function	ADP binding; AMP binding; contributes_to AMP-activated protein kinase activity; AMP-activated protein kinase activity; ATP binding; cAMP-dependent protein kinase activity; cAMP-dependent protein kinase regulator activity; nucleotide binding; protein bindi

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