
Product Data Sheet

Product Name: PRKAG1 Human
 Cat. No.: GP22611
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Protein Kinase AMP-Activated Gamma 1 Non-Catalytic Subunit; 5'-AMP-Activated Protein Kinase Subunit Gamma-1; AMPK Gamma1 Chain; AMPKg.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMETVISS DSSPAVENEH PQETPESNNS VYTSFMKSHR CYDLIPTSSK LVVFDTSLQV KKAFFALVTN GVRAAPLWDS KKQSFVGMLT ITDFINILHR YYKSALVQIY ELEEKTIETW REVYLQDSFK PLVCISPNAS LFDVSSLIR NIKHRLPVID PESGNTLYIL THKRILKFLK LFITEFPKPE FMSKSLEELQ IGTYANIAMV RTTTPVYVAL GIFVQHRVSA LPVVDEKGRV VDIYSKFDVI NLAAEKTYNN LDVSVTKALQ HRSHYFEGVL KCYLHETLET IINRLVEAEV HRLVVVDEND VVKGIVSLSD ILQALVLTGG EKKP		
Formulation	The PRKAG1 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

PRKAG1 is a regulatory subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer comprised of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. AMPK is a vital energy-sensing enzyme which supervises cellular energy status. PRKAG1 is one of the gamma regulatory subunits of AMPK. Alternatively spliced transcript variants encoding dissimilar isoforms were found.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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PRKAG1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 354 amino acids (1-331) and having a molecular mass of 40.0kDa. PRKAG1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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