
Product Data Sheet

Product Name: PRKAB2 Human

Cat. No.: GP22607

Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	5'-AMP-activated protein kinase subunit beta-2; AMPK subunit beta-2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGS HMGNTTS DRVSGERHGA KAARSEGAGG HAPGKEHKIM VGSTDDPSVF SLPDSKLP GD KEFVSWQQDL EDSVKPTQQA RPTVIRWSEG GKEVFISGSF NNWSTKIPLI KSHNDFVAIL DLPEGEHQYK FFVDGQWVHD PSEPVTSQL GTINNLIHVK KSDFEVFDAL KLDSMESSET SCRDLSSSPP GPYGQEMYAF RSEERFKSPP ILPPHLLQVI LNKDTNISCD PALLPEPNHV MLNHLYALSI KDSVMVLSAT HRYKKKYVTT LLYKPI.		
Formulation	The PRKAB2 solution (1mg/ml) contains 20mM Tris-HCl buffer, (pH8.0), 10% glycerol and 2M Urea.		

Introduction

PRKAB2 is a regulatory subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer contains an alpha catalytic subunit and non-catalytic beta and gamma subunits. AMPK is a significant energy-sensing enzyme that supervises cellular energy status. AMPK is activated as a reply to cellular metabolic stresses, therefore phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HMGCR), vital enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. PRKAB2 is a positive regulator of AMPK activity and highly expressed in skeletal muscle.

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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PRKAB2 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 296 amino acids (1-272) and having a molecular mass of 32.8kDa. PRKAB2 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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