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PRKAB2 Human

Catalog #:PKPS-053

For research use only.

Description: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.

Synonyms:5'-AMP-activated protein kinase subunit beta-2, AMPK subunit beta-2.

Source:E.coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MGSHMGNTTS DRVSGERHGA KAARSEGAGG HAPGKEHKIM VGSTDDPSVF SLPDSKLPGD KEFVSWQQDL EDSVKPTQQA RPTVIRWSEG GKEVFISGSF NNWSTKIPLI KSHNDFVAIL DLPEGEHQYK FFVDGQWVHD PSEPVVTSQL GTINNLIHVK KSDFEVFDAL KLDSMESSET SCRDLSSSPP GPYGQEMYAF RSEERFKSPP IL

Purity: Greater than 90% as determined by SDS-PAGE.

Formulation:
The PRKAB2 solution (1mg/ml) contains 20mM Tris-HCl buffer, (pH8.0), 10% glycerol and 2M Urea.

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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

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.

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