

# Recombinant Mouse PRKAA1 Protein Product Manual

## 1. Product Basic Information

**Product No.:** REP07890

**Protein Name:** Acaca Kinase (PRKAA1)

**Aliases:** AMPK; AMPKa1; ACACA kinase; AMPK alpha HMGCR kinase; acetyl-CoA carboxylase kinase; AMP -activate kinase alpha 1 subunit; hydroxymethylglutaryl-CoA reductase kinase

**UniProt ID:** Q13131

**UniProt Link:** <https://www.uniprot.org/uniprotkb/Q13131/entry>

**Species Source:** Mus musculus (Mouse)

**Expression System:** Baculovirus

**Protein Length:** Full Length (1-559aa)

**Molecular Weight:** 65

**Protein Tag:** N-terminal 6xHis-tagged

## 2. Amino Acid Sequence (1-559aa)

MRRLSSWRKMATAEKQKHDGRVKIGHYILGDTLGVGTFGKVKVGKHELTGHKVAV  
KILNRQKIRSLDVVGKIRREIQNLKLFRRPHIIKLYQVISTPSDIFMVM EYVSSG GELFDY  
ICKNGRLDEKESRRLFQQILSGVDYCHRHMVVHRDLKPENVLLDAH MNAKIADFG L  
SNMMSDGEFLRTSCGSPNYAAPEVISGRLYAGPEVDIWSSGVILYALLCGTLPFDD  
DHVPTLFFKKICDGIFYTPQYLNPSVISLLKHMLQVDPMKRAAIKDIREHEWFKQDLPK  
YLPEDPSYSSTMIDDEALKEVCEKFECSEEEVL SCLYNRNHQDPLAVAYHLIIDNR  
RIMNEAKDFYLATSP PDSFLDDHHLTRPHERVPFLVAETPRARHTLDELNPQKSK  
HQQGVRKAKWHLGIRSQSRPNDIMAEVCRAIKQLDYEWKVVNPYYLRVRRKNP VTS  
TFSKMSLQLYQVDSRTYLLDFRSIDDEITEAKSGTATPQRSGSISNYRSCQRSDSDA  
EAQGKPSDVSLTSSVTS LDSSPVDVAPRPGSHTIEFFEMCANLIKILAQ

## 3. Storage Buffer

**Liquid Delivery Form:** Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).



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**Lyophilized Powder Delivery Form:** Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.

## 4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

## 5. Product Description

This product is a recombinant Mouse PRKAA1 full length protein (1-559aa) expressed in Baculovirus. The protein is with 6xHis tag at the N-terminus, which facilitates protein purification, detection and identification. PRKAA1, also known as AMPK or AMPKa1 or ACACA kinase, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

## 6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.