



Recombinant Human KCNJ1 Protein Product Manual

1. Product Basic Information

Product No.: REP07276

Protein Name: Kir1.Inwardly Rectifying K⁺ Channel (KCNJ1)

Aliases: ROMK; ROMK1; KIR1.inwardly rectifying K⁺ channel

UniProt ID: P48048

UniProt Link: <https://www.uniprot.org/uniprotkb/P48048/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Cytoplasmic Domain (178-391)

Molecular Weight: 28.3kDa

Protein Tag: N-terminal 6xHis-tagged

2. Amino Acid Sequence (178-391)

ILAKISRPKKRAKTITFSKNAVISKRGGKLCLLIRVANLRKSLIGSHIYGKLLKTTVTPE
GETIILDQININFVVDAGNENLFFISPLTIYHVIDHNSPFFHMAAETLLQQDFELVVFLD
GTVESTSATCQVRTSYVPEEVLWGYRFAPIVSKTKEGKYRVDFHNFSKTVEVETPH
CAMCLYNEKDVRARMKRGYDNPFISEVNETDDTKM

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).

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 Human KCNJ1 cytoplasmic domain protein (178-391) expressed in E.coli. The protein is with 6xHis tag at the N-terminus, which facilitates protein purification, detection and identification. KCNJ1, also known as ROMK or ROMK1 or KIR1.inwardly rectifying K⁺ channel, 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.