



Recombinant Human KCNJ10 Protein Product Manual

1. Product Basic Information

Product No.: REP07277

Protein Name: KCNJ10

Aliases: KIR1.KIR4.SESAME; BIRK-10; KCNJ13-PEN

UniProt ID: P78508

UniProt Link: <https://www.uniprot.org/uniprotkb/P78508/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Cytoplasmic Domain (165-379aa)

Molecular Weight: 39.8kDa

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

2. Amino Acid Sequence (165-379aa)

FLAKIARPKKRAETIRFSQHAVVASHNGKPCLMIRVANMRKSLIGCQVTGKLLQTH
QTKEGENIRLNQVNVTFQVDTASDSPFLILPLTFYHVVDETSPLKDLPLRSGEGDFE
LVLILSGTVESTSATCQVRTSYLPEEILWGYEFTPAISLSASGKYIADFSLFDQVVKVA
SPSGLRDSTVRYGDPEKLEESLREQAEKEGSALSVRISNV

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 KCNJ10 cytoplasmic domain protein (165-379aa) expressed in E.coli. The protein is with 6xHis-SUMO tag at the N-terminus, which facilitates protein purification, detection and identification. KCNJ10, also known as KIR1.KIR4.SESAME or BIRK-10 or KCNJ13-PEN, 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.