

Recombinant human KCNMB3 protein

Catalog Number: ATGP2801

PRODUCT INFORMATION

Expression system

E.coli

Domain

82-207aa

UniProt No.

Q9NPA1

NCBI Accession No.

NP_055222

Alternative Names

calcium-activated potassium channel subunit beta-3 isoform d, BKBETA3, HBETA3, KCNMB2, KCNMBL, SLOBETA3

PRODUCT SPECIFICATION

Molecular Weight

16.8 kDa (149aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

The KCNMB3 is one of a family of four auxiliary beta subunits found in the mammalian genome that associate with Slo1 alpha subunits and regulate BK channel function. In humans, the KCNMB3 gene contains four N-terminal alternative exons that produce four functionally distinct beta3 subunits, beta3a-d. Three variants, beta3a-c, exhibit kinetically distinct inactivation behaviors. Recombinant human KCNMB3 fused to His-tag at N-terminus, was expressed in E. coli.

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Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSKPFMLSI QREESTCTAI HTDIMDDWLD CAFTCGVHCH GQGKYPCLQV FVNLSHPGQK
ALLHYNEEAV QINPKCFYTP KCHQDRNDLL NSALDIKEFF DHKNGTPFSC FYSPASQSED VILIKKYDQ

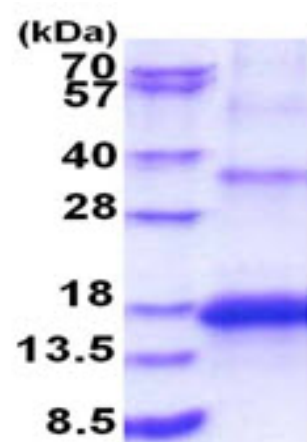
General References

Lee,u.S, et al. (2009) J. Physiol. (Lond.) 587 (PT 7), 1481-1498

Zeng,X., et al. (2008) J. Gen. Physiol. 132 (1), 115-129

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.