

# Recombinant human KCNMB3 protein

Catalog Number: ATGP2801

## PRODUCT INFORMATION

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### 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

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### 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

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### 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

MGSSHHHHHHH SSSLVPRGSH MGSKPFMLSI QREESTCTAI HTDIMDDWLD CAFTCGVHCH GQGKYPCLQV FVNLSHPGQK  
ALLHYNEEAV QINPKCFYTP KCHQDRNDLL NSALDIKEFF DHKNGTPFSC FYSPASQSED VILIKKYDQ

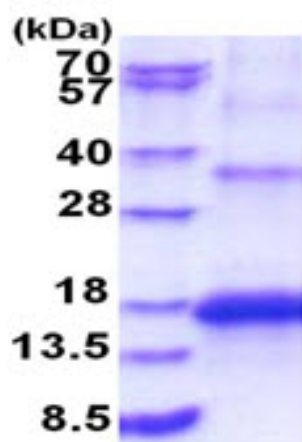
### General References

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.