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**Product Data Sheet**


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Product Name: KCNMB3 Human

Cat. No.: GP23732

Batch No.: 1

**Product Data**

Purity &gt;98% Source Escherichia Coli.

Physical Appearance solid Shipping Condition Shipped with Ice Packs.

Synonyms Potassium Channel Subfamily M Regulatory Beta Subunit 3; Potassium Large Conductance Calcium-Activated Channel; Subfamily M Beta Member 3; Calcium-Activated Potassium Channel; Subfamily M Subunit Beta-3; Charybdotoxin Receptor Subunit Beta-3; Big Potassium Channel Beta Subunit 3; Maxi K Channel Subunit Beta-3; MaxiK Channel Beta-Subunit 3; BK Channel Beta Subunit 3; BK Channel Subunit Beta-3; K(VCA)BETA-3; SLO-BETA-3; BKBETA3; Hbeta3; KCNMB2; KCNMBL; Large Conductance; Voltage And Ca<sup>2+</sup> Activated Potassium Channel Maxi K Beta 3 Subunit; Calcium-Activated Potassium Channel Regulatory Subunit; SLOBETA3; Calcium-activated potassium channel subunit beta-3.

Amino Acid Sequence MGSSHHHHHH SGLVPRGSH MGSKPFMLSI QREESTCTAI HTDIMDDWLD CAFTCGVHCH GQGKYPCLQVFNLSHPGQK ALLHYNEEAV QINPKCFYTP KCHQDRNDLL NSALDIKEFF DHKNGTPFSC FYSPASQSEDVILIKKYDQ.

Formulation KCNMB3 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M UREA and 10% glycerol.

**Introduction**

The KCNMB3 belongs to a family of 4 auxiliary beta subunits found in the mammalian genome, which associate with Slo1 alpha subunits and regulate BK channel function. In humans, the KCNMB3 gene is comprised of 4 N-terminal alternative exons which produce 4 functionally distinct beta3 subunits, beta3a-d. Three variants, beta3a-c, display kinetically distinct inactivation behaviors.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

**Caution: Product has not been fully validated for medical applications. For research use only.**

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

KCNMB3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 149 amino acids (82-207 a.a) and having a molecular mass of 16.8kDa. KCNMB3 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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