

## 32-4041: Recombinant Human KCNMB3

**Alternative Name :** 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 Pot

### Description

Source : Escherichia Coli. 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. 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.

### Product Info

**Amount :** 20 µg  
**Purification :** "Greater than 85.0% as determined by SDS-PAGE."  
**Content :** KCNMB3 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M UREA and 10% glycerol.  
**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer 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.  
**Amino Acid :** MGSSHHHHHH SGLVPRGSH MGSKPFMSI QREESTCTAI HTDIMDDWLD CAFTCGVHCH  
GQGKYPCLQV FVNLSPGQK ALLHYNEEAV QINPKCFYTP KCHQDRNDLL NSALDIKEFF DHKNGTPFSC  
FYSPASQSED VILIKKYDQ.