

Recombinant Human KCNMB3 Protein, His tagged

Cat. No. KCNMB3-20H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human KCNMB3 (82-207 aa) fused to His-tag at N terminus, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	82-207 aa
Description	MaxiK channels are large conductance, voltage and calcium-sensitive potassium channels which are fundamental to the control of smooth muscle tone and neuronal excitability. MaxiK channels can be formed by 2 subunits: the pore-forming alpha subunit and the modulatory beta subunit. The protein encoded by this gene is an auxiliary beta subunit which may partially inactivate or slightly decrease the activation time of MaxiK alpha subunit currents. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 22.
Form	Liquid
Molecular Mass	16.8 kDa (149aa)
AA Sequence	MGSSHHHHHHSSGLVPRGSHMGSKPFMLSIQREESTCTAIHTDIMDDWLDCAFTC GVHCHGQGKYPCLQVFVNLSHPGQKALLHYNEEAVQINPKCFYTPKCHQDRNDLL NSALDIKEFFDHKNGTPFSCFYSPASQSEDVILIKKYDQ

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Purity	> 85% by SDS-PAGE
Applications	SDS-PAGE, Denatured
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Storage Buffer	20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol
Concentration	1 mg/mL (determined by Bradford assay)
Reference	1. Lee,u.S, et al. (2009) J. Physiol. (Lond.) 587 (PT 7), 1481-1498 2. Zeng,X., et al. (2008) J. Gen. Physiol. 132 (1), 115-129

GENE INFORMATION

Gene Name	KCNMB3 potassium calcium-activated channel subfamily M regulatory beta subunit 3 [Homo sapiens (human)]
Official Symbol	KCNMB3
Synonyms	KCNMB3; potassium large conductance calcium-activated channel, subfamily M beta member 3; KCNMB2, KCNMBL; calcium-activated potassium channel subunit beta-3; slo-beta-3; K(VCA)beta-3; BK channel subunit beta-3; maxi K channel subunit beta-3; charybdotoxin receptor subunit beta-3; calcium-activated potassium channel, subfamily M subunit beta-3; large conductance, voltage and Ca ²⁺ activated potassium channel Maxi K beta 3 subunit; HBETA3; KCNMB2; KCNMBL; BKBETA3; SLOBETA3

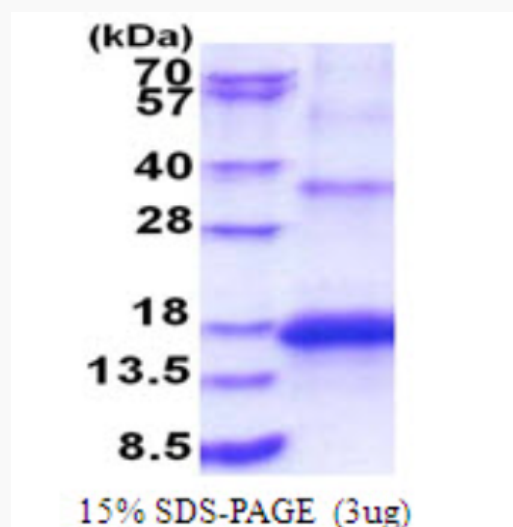
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Gene ID	27094
mRNA Refseq	NM_014407
Protein Refseq	NP_055222
MIM	605222
UniProt ID	Q9NPA1

SDS-PAGE and WB



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