

KCNAB2 Protein, Human, Recombinant (His & SUMO)

General Information

Synonyms:	KCNK2;Kv-beta-2 (hKvbeta2);K(+) channel subunit beta-2;KCNAB2;Voltage-gated potassium channel subunit beta-2;KCNA2B
Protein Construction:	1-367 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q13303
Molecular Weight:	57.0 kDa (predicted)
AA Sequence:	<p>MYPESTTGSPARLSLRQTGSPGMIYSTRYGSPKRQLQFYRNLGKSLRVSLGLGTWVTFGGQITDEMAEQL MTLAYDNGINLFDTAEVYAAGKAEVVLGNIKKKGWRRSSLVITTKIFWGGKAETERGLSRKHII EGLKASLERL QLEYVDVVFANRPDPNTPMEETVRAMTHVINQGMAMYWGTSRWSSMEIMEAYSVARQFNLTTPICEQAEY HMFQREKVEVQLPELFFHKIGVGAMTWSPLACGIVSGKYDSGIPPYSRASLKG YQWLKDKILSEEGRRQAKLK ELQAI AERLGCTLPQLAI AWCLRNEGVS SVLLGASNADQLMENIGAIQVLPKLS SSIHEIDSILGNKPYSKKDYR S</p>

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Cytoplasmic potassium channel subunit that modulates the characteristics of the channel-forming alpha-subunits.

A DRUG SCREENING EXPERT

Contributes to the regulation of nerve signaling, and prevents neuronal hyperexcitability. Promotes expression of the pore-forming alpha subunits at the cell membrane, and thereby increases channel activity. Promotes potassium channel closure via a mechanism that does not involve physical obstruction of the channel pore. Promotes KCNA4 channel closure. Modulates the functional properties of KCNA5. Enhances KCNB2 channel activity. Binds NADPH and has NADPH-dependent aldo-ketoreductase activity. Has broad substrate specificity and can catalyze the reduction of methylglyoxal, 9,10-phenanthrenequinone, prostaglandin J2, 4-nitrobenzaldehyde, 4-nitroacetophenone and 4-oxo-trans-2-nonenal (in vitro).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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