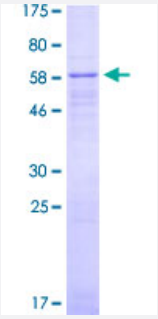
Full-Length

KCNQ2 (Human) Recombinant Protein (P01)

Catalog # H00003785-P01 Size 2 ug

Applications



Specification

Product Description	Human KCNQ2 full-length ORF (AAH00699.1, 1 a.a. - 393 a.a.) recombinant protein with GST tag at N-terminal.
Sequence	MVQKSRNGGVYPGPSGEKKLKVGFVGLDPGAPDSTRDGALLIAGSEAPKRGSILSKPRAGGAGA GKPPKRNAFYRKLQNFLYNVLERPRGWAFIYHAYVFLLVFSCLVLSVFSTIKEYEKSSEGALYILEIV TIVVFGVEYFVRIWAAGCCCRYRGWRGRLKFARKPFCVIDIMVLIASIAVLAAGSQGNVFATSALRS LRFLQILRMIRMDRRGGTWKLLGSVVYAHSKELVTAWYIGFLCLILASFLVYLAEKGENDHFDTYAD ALWWGLITLTTIGYGDKYPQTWNGRLLAATFTLIGVSFFALPAGILGSGFALKVQEQHRQKHFEKRR NPAAGLIQSAWRFYATNLSRTDLHSTWQYYERTVTVPMYRYRRRAPATKQLFHFLFSICS
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	68.97
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — KCNQ2

Entrez GeneID	3785
GeneBank Accession#	BC000699.2
Protein Accession#	AAH00699.1
Gene Name	KCNQ2
Gene Alias	BFNC, EBN, EBN1, ENB1, HNSPC, KCNA11, KV7.2, KVEBN1
Gene Description	potassium voltage-gated channel, KQT-like subfamily, member 2
Omim ID	121200 602235 606437
Gene Ontology	Hyperlink
Gene Summary	The M channel is a slowly activating and deactivating potassium channel that plays a critical role in the regulation of neuronal excitability. The M channel is formed by the association of the protein encoded by this gene and a related protein encoded by the KCNQ3 gene, both integral membrane proteins. M channel currents are inhibited by M1 muscarinic acetylcholine receptors and activated by retigabine, a novel anti-convulsant drug. Defects in this gene are a cause of benign familial neonatal convulsions type 1 (BFNC), also known as epilepsy, benign neonatal type 1 (EBN1). At least five transcript variants encoding five different isoforms have been found for this gene. [provided by RefSeq
Other Designations	neuroblastoma-specific potassium channel protein|potassium voltage-gated channel KQT-like protein 2

Disease

- Epilepsy
- Genetic Predisposition to Disease
- Syndrome