



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Datasheet

### KCNQ2 (Human) Recombinant Protein (P01)

**Catalog Number:** H00003785-P01

**Regulation Status:** For research use only (RUO)

**Product Description:** Human KCNQ2 full-length ORF (AAH00699.1, 1 a.a. - 393 a.a.) recombinant protein with GST tag at N-terminal.

**Sequence:**

MVQKSRNGGVYPGPSGEKCLKVGFVGLDPGAPDSTR  
DGALLIAGSEAPKRGSIKPRAGGAGAGKPPKRNAF  
YRKLQNFYLVLERPRGWAFIYHAYVFLVFSCLVLSV  
FSTIKEYEKSSEGALYILEIVTIVVFGVEYFVRIWAAGCC  
CRYRGWRGRLKFARKPFCVIDIMVLIASIAVLAAGSQG  
NVFATSALRSLRFLQILRMIRMDRRGGTWKLLGSVVYA  
HSELVTAWYIGFLCLILASFLVYLAEKGENDFDFTYAD  
ALWWGLITLTTIGYGDKYPQWTWNGRLLAATFTLIGVSF  
FALPAGILGSGFALKVQEQHRQKHFEKRRNPAAGLIQS  
AWRFYATNLSRTDLHSTWQYYERTVTVPMYRYYRRA  
PATKQLFHFLFSICS

**Host:** Wheat Germ (in vitro)

**Theoretical MW (kDa):** 68.97

**Applications:** AP, Array, ELISA, WB-Re  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at  
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Preparation Method:** [in vitro wheat germ expression system](#)

**Purification:** Glutathione Sepharose 4 Fast Flow

**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.

**Entrez GeneID:** 3785

**Gene Symbol:** KCNQ2

**Gene Alias:** BFNC, EBN, EBN1, ENB1, HNSPC, KCNA11, KV7.2, KVEBN1

**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]