

## Recombinant Human KCNQ3 protein, GST-tagged

Cat. No. KCNQ3-5733H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human KCNQ3 protein(379-517 aa), fused with N-terminal GST tag, was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	379-517 aa
<b>Form</b>	The purified protein was lyophilized from sterile phosphate-buffered saline (PBS: 58 mM Na <sub>2</sub> HPO <sub>4</sub> , 17 mM NaH <sub>2</sub> PO <sub>4</sub> , 68 mM NaCl, pH 8.0). Prior to lyophilization, 5% (w/v) trehalose and 5% (w/v) mannitol were incorporated as cryoprotective excipients. The protein was eluted with a buffer containing 100 mM reduced glutathione (GSH).
<b>AASequence</b>	PNRIDLVATWRFYESVVSFPFFRKEQLEAASSQKLGLLDRVRLSNPRGSNTKGKLF PLNVDAIEESPSKEPKPVGLNNKERFRTAFRMKAYAFWQSSEDAGTGDPMAEDRG YGNDFPIEDMIPTLKAIRAVRILQFR
<b>Purity</b>	85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
<b>Storage</b>	Store at 2-8°C for 1-2 weeks. Aliquot and store at -20°C to -80°C for up to 3 months, reconstitution with sterile water and addition of an equal volume of glycerol. Avoid repeat freeze-thaw cycles.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Reconstitution**

Dissolve the product in 200 µl sterile water to achieve a working concentration of 0.25 g/µl. If experimental compatibility allows, mix the aqueous solution with an equal volume of glycerol (1:1 ratio) after initial reconstitution.

**GENE INFORMATION****Gene Name**

KCNQ3 potassium voltage-gated channel, KQT-like subfamily, member 3 [ Homo sapiens ]

**Official Symbol**

KCNQ3

**Synonyms**

KCNQ3; potassium voltage-gated channel, KQT-like subfamily, member 3; EBN2; potassium voltage-gated channel subfamily KQT member 3; Kv7.3; potassium channel subunit alpha KvLQT3; voltage-gated potassium channel subunit Kv7.3; potassium channel, voltage-gated, subfamily Q, member 3; BFNC2; KV7.3; FLJ37386; FLJ38392; DKFZp686C0248;

**Gene ID**

3786

**mRNA Refseq**

NM\_001204824

**Protein Refseq**

NP\_001191753

**MIM**

602232

**UniProt ID**

O43525

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SDS-PAGE



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