

Recombinant Human KCNQ3 protein, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant Human KCNQ3 protein(379-517 aa), fused with N-terminal GST tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	379-517 aa
Form	The purified protein was lyophilized from sterile phosphate-buffered saline (PBS: 58 mM Na ₂ HPO ₄ , 17 mM NaH ₂ PO ₄ , 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).
AASequence	PNRIDLVATWRFYESVVSFPFFRKEQLEAASSQKLGLLDRVRLSNPRGSNTKGKLFT PLNVDAIEESPSKEPKPVGLNNKERFRTAFRMKAYAFWQSSDAGTGDPMAEDRG YGNDFPIEDMIPTLKAAIRAVRILQFR
Purity	85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Storage	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.

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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

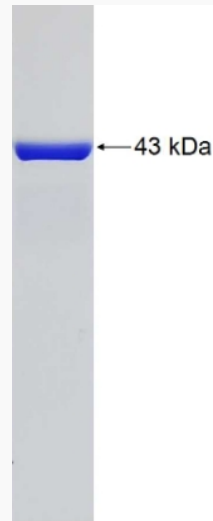
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SDS-PAGE



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