

Recombinant Human KCNQ5 293 Cell Lysate

Cat. No. KCNQ5-5016HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for potassium voltage-gated channel, KQT-like subfamily, member 5 (KCNQ5), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Applications ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	KCNQ5 potassium voltage-gated channel, KQT-like subfamily, member 5 [Homo sapiens]
Official Symbol	KCNQ5
Synonyms	KCNQ5; potassium voltage-gated channel, KQT-like subfamily, member 5; potassium voltage-gated channel subfamily KQT member 5; Kv7.5; KQT-like 5; potassium channel protein; potassium channel subunit alpha KvLQT5; voltage-gated potassium channel subunit Kv7.5;
Gene ID	56479
mRNA Refseq	NM_001160130
Protein Refseq	NP_001153602
MIM	607357
UniProt ID	Q9NR82
Chromosome Location	6q14
Pathway	Cholinergic synapse, organism-specific biosystem; Neuronal System, organism-specific biosystem; Potassium Channels, organism-specific biosystem; Voltage gated

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Potassium channels, organism-specific biosystem;

Function

inward rectifier potassium channel activity; voltage-gated ion channel activity;

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