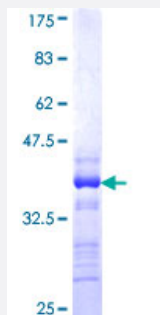


# KCNQ5 (Human) Recombinant Protein (Q01)

Catalog # H00056479-Q01

Size 25 ug, 10 ug

## Applications



## Specification

<b>Product Description</b>	Human KCNQ5 partial ORF ( NP_062816, 833 a.a. - 932 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Sequence</b>	QNLIRSTEELNIQLSGSESSGSRGSQDFYPKWRESKLFITDEEVGPEETETDTFDAAPQPAREAA FASDSLRTGRSRSSQSICKAGESTDALSLPHVKLK
<b>Host</b>	Wheat Germ (in vitro)
<b>Theoretical MW (kDa)</b>	36.74
<b>Preparation Method</b>	<a href="#">in vitro wheat germ expression system</a>
<b>Purification</b>	Glutathione Sepharose 4 Fast Flow
<b>Quality Control Testing</b>	12.5% SDS-PAGE Stained with Coomassie Blue.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Storage Instruction</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	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 — KCNQ5

**Entrez GeneID** [56479](#)

**GeneBank Accession#** [NM\\_019842](#)

**Protein Accession#** [NP\\_062816](#)

**Gene Name** KCNQ5

**Gene Alias** Kv7.5

**Gene Description** potassium voltage-gated channel, KQT-like subfamily, member 5

**Omim ID** [607357](#)

**Gene Ontology** [Hyperlink](#)

**Gene Summary** This gene is a member of the KCNQ potassium channel gene family that is differentially expressed in subregions of the brain and in skeletal muscle. The protein encoded by this gene yields currents that activate slowly with depolarization and can form heteromeric channels with the protein encoded by the KCNQ3 gene. Currents expressed from this protein have voltage dependences and inhibitor sensitivities in common with M-currents. They are also inhibited by M1 muscarinic receptor activation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

**Other Designations** OTTHUMP00000016729|OTTHUMP00000064152|OTTHUMP00000064153|potassium channel protein

## Publication Reference

- [Relationship between rat retinal degeneration and potassium channel KCNQ5 expression.](#)

Caminos E, Vaquero CF, Martinez-Galan JR.

Experimental Eye Research 2015 Feb; 131:1.

Application: Func, Antibody

## Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Tobacco Use Disorder](#)