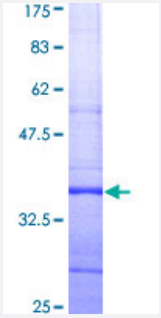
KCNH2 (Human) Recombinant Protein (Q01)

Catalog # H00003757-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human KCNH2 partial ORF (AAH01914, 684 a.a. - 773 a.a.) recombinant protein with GST-tag at N -terminal.
Sequence	LGMGWGAGTGLEMPSAASRGASLLNMQSLGLWTWDCLQGHWAPLIHLNSGPPSGAMERSPTW GEAAELWGSHILLPFRIRHKQTLFASLK
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	35.53
Interspecies Antigen Sequence	Mouse (36); Rat (36)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
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.
Note	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 — KCNH2

Entrez GeneID	3757
GeneBank Accession#	BC001914
Protein Accession#	AAH01914
Gene Name	KCNH2
Gene Alias	ERG1, HERG, HERG1, Kv11.1, LQT2, SQT1
Gene Description	potassium voltage-gated channel, subfamily H (eag-related), member 2
Omim ID	152427 609620
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a voltage-activated potassium channel belonging to the eag family. It shares s equence similarity with the Drosophila ether-a-go-go (eag) gene. Mutations in this gene can caus e long QT syndrome type 2 (LQT2). Transcript variants encoding distinct isoforms have been iden tified. [provided by RefSeq
Other Designations	cause of Long QT Syndrome Type 2|ether-a-go-go-related potassium channel protein|human eag-related|potassium channel HERG|potassium channel HERG1|potassium voltage-gated channel, s ubfamily H, member 2|voltage-gated potassium channel|voltage-gated potassiu

Disease

- Arrhythmia
- Arrhythmias
- Asymptomatic Diseases

- Atrial Fibrillation
- Atrioventricular Block
- Bradycardia
- Brugada Syndrome
- Cardiomyopathies
- Cardiovascular Diseases
- Channelopathies
- Chromosome Deletion
- Cognition
- Death
- Diabetes Mellitus
- Disease Progression
- Drowning
- Edema
- Gastrointestinal Diseases
- Gastroparesis
- Genetic Predisposition to Disease
- Heart Arrest
- Heart Block
- Heart Defects
- Hypertension
- Long QT syndrome
- Romano-Ward Syndrome
- Schizophrenia
- Sleep
- Sudden Infant Death

- Syncope
- Syndrome
- Tachycardia
- Torsades de Pointes