

Product datasheet

Recombinant Human KCNJ5 protein ab158786

1 Image

Overview

Product name	Recombinant Human KCNJ5 protein
Protein length	Protein fragment

Description

Nature	Recombinant
Source	Wheat germ
Amino Acid Sequence	
Species	Human
Sequence	SYMDTEVLWGHRFTPVLTLKGFYEVDYNTFHDTYETN TPSCCAKELAEM KREGRLQLYLPSPPLLGCAEAGLDAEAEQNEEDP KGLGGSREARGSV
Amino acids	321 to 419
Tags	GST tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab158786** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	ELISA Western blot
Form	Liquid
Additional notes	Protein concentration is above or equal to 0.05 mg/ml.

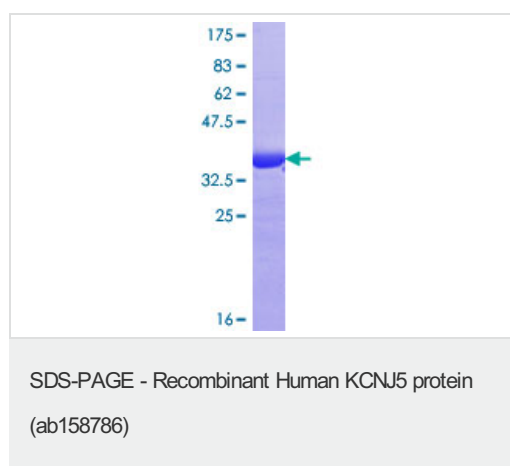
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
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General Info

Function	This potassium channel is controlled by G proteins. Inward rectifier potassium channels are characterized by a greater tendency to allow potassium to flow into the cell rather than out of it. Their voltage dependence is regulated by the concentration of extracellular potassium; as external potassium is raised, the voltage range of the channel opening shifts to more positive voltages. The inward rectification is mainly due to the blockage of outward current by internal magnesium. Can be blocked by external barium.
Tissue specificity	Islets, exocrine pancreas and heart.
Involvement in disease	Defects in KCNJ5 are the cause of long QT syndrome type 13 (LQT13) [MIM:613485]. It is a heart disorder characterized by a prolonged QT interval on the ECG and polymorphic ventricular arrhythmias. They cause syncope and sudden death in response to exercise or emotional stress, and can present with a sentinel event of sudden cardiac death in infancy.
Sequence similarities	Belongs to the inward rectifier-type potassium channel (TC 1.A.2.1) family. KCNJ5 subfamily.
Cellular localization	Membrane.

Images



ab158786 on a 12.5% SDS-PAGE stained with Coomassie Blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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