Recombinant human ATP-sensitive inward rectifier potassium channel 1

Catalog No: #AP72634

Package Size: #AP72634-1 20ug #AP72634-2 100ug #AP72634-3 1mg

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Description

Product Name	Recombinant human ATP-sensitive inward rectifier potassium channel 1
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:178-391Sequence Info:Cytoplasmic Domain
Other Names	ATP-regulated potassium channel ROM-KInward rectifier K(+) channel Kir1.1;Potassium channel, inwardly rectifying subfamily J member 1
Accession No.	P48048
Uniprot	P48048
GeneID	3758;
Calculated MW	26.3 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	ILAKISRPKKRAKTITFSKNAVISKRGGKLCLLIRVANLRKSLLIGSHIYGKLLKTTVTPEGETIILDQININFVVDAG NENLFFISPLTIYHVIDHNSPFFHMAAETLLQQDFELVVFLDGTVESTSATCQVRTSYVPEEVLWGYRFAPIVSK TKEGKYRVDFHNFSKTVEVETPHCAMCLYNEKDVRARMKRGYDNPNFILSEVNETDDTKM
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

In the kidney, probably plays a major role in potassium homeostasis. 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 domain 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. This channel is activated by internal ATP and can be blocked by external barium.

References

Cloning and characterization of multiple forms of the human kidney ROM-K potassium channel.Shuck M.E., Bock J.H., Benjamin C.W., Tsai T.-D., Lee K.S., Slightom J.L., Bienkowski M.J.J. Biol. Chem. 269:24261-24270(1994)Research Topic:Signal Transduction