



Recombinant Human ATP-sensitive inward rectifier potassium channel 10 (KCNJ10)

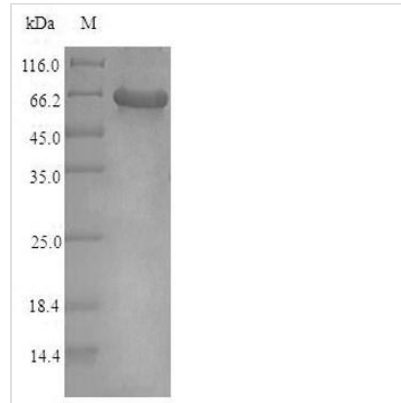
Product Code	CSB-CF012048HU
Relevance	May be responsible for potassium buffering action of glial cells in the brain. Inward rectifier potassium channels are characterized by a greater tendency to allow potassium to flow into the cell rather than out of it. Their voltage dependence is regulated by the 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 extracellular barium and cesium (By similarity). In the kidney, together with KCNJ16, mediates basolateral K ⁺ recycling in distal tubules; this process is critical for Na ⁺ reabsorption at the tubules
Abbreviation	Recombinant Human KCNJ10 protein
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.
Uniprot No.	P78508
Product Type	Transmembrane Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MTSVAKVYYSQTTQTESRPLMGP GIRRRRVLTKDGRSNVRMEHIADKRFLYLK DLWTTFFIDMQWRYKLLLF SATFAGTWFLFGV VVWYLVAVAHGDLELDPPANHT PCVVQVHTLTGAF LFSLESQTTIGYGFRYISEECPLAIVLLIAQLVLTILEIFITGT FLAKIARPKKRAETIRFSQHAVVASHNGKPCLMIRVANMRK SLLIGCQVTGKLL QTHQTKEGENIRLNQVNVTFQVDTASDSPFLILPLTFYHVVD ETSPLKDLPLRS GEGDFELVLILSGTVESTSATCQVRTSYLPEEILWGYEFTPAISLSASGKYIADF SLFDQVVKVASPSGLRDSTVRYGDPEK LKLEESLREQAEKEGSALSVRISNV
Research Area	Neuroscience
Source	in vitro E.coli expression system
Target Names	KCNJ10
Protein Names	ATP-dependent inwardly rectifying potassium channel Kir4.1 Inward rectifier K(+) channel Kir1.2 Potassium channel, inwardly rectifying subfamily J member 10
Expression Region	1-379aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged



Mol. Weight 58.5kDa

Protein Length Full Length

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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