Proteins



Product Data Sheet

KCNJ16 Protein, Rat (Cell-Free, His)

Cat. No.: HY-P702346

Synonyms: Inward rectifier potassium channel 16; BIR9; Inward rectifier K(+) channel Kir5.1; Potassium

channel, inwardly rectifying subfamily J member 16

Rat Species:

Source: E. coli Cell-free P52191 (M1-M419) Accession:

Gene ID:

Molecular Weight: 54.0 kDa

PROPERTIES

AA Sequence				
	MSYYGSSYRI	VNVDSKYPGY	PPEHAIAEKR	RARRLLHKD
	GSCNVYFKHI	FGEWGSYMVD	IFTTLVDTKW	RHMFVVFSLS
	YILSWLIFGS	IFWLIALHHG	DLLSDPDITP	CVDNVHSFTA
	AFLFSLETQT	TIGYGYRCVT	EECSVAVLTV	ILQSILSCII
	NTFIIGAALA	KMATARKRAQ	TIRFSYFALI	GMRDGKLCLM
	WRIGDFRPNH	VVEGTVRAQL	LRYSEDSEGR	MTMAFKDLKL
	VNDQIILVTP	VTIVHEIDHE	SPLYALDRKA	VAKDNFEILV
	TFIYTGDSTG	TSHQSRSSYV	PREILWGHRF	HDVLEVKRKY
	YKVNCLQFEG	SVEVYAPFCS	AKQLDWKDQQ	LNNLEKTSPA
	RGSCTSDTNT	RRRSFSAVAM	VSSCENPEET	SLSPQDECKE
	VPYQKALLTL	NRISMESQM		
A				
Appearance	Lyophilized powder.			
Formulation	Lyophilized from a 0.22 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.			
Tormatation	Lyophilized from a 0.22 μm filtered solution of fris/Fb3-based buffer, 0% frematose, pri 6.0.			
Endotoxin Level	<1 EU/μg, determined by LAL method.			
Endotoxiii Ecvet	T LO/μg, determined by LAL method.			
	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is			
Peconsititution	It is not recommended to	reconstitute to a concentrat	ion less than 100 ug/mL in d	dHaO. For long term storage it is
Reconsititution			· -	
Reconsititution	recommended to add 5-50		· -	dH ₂ O. For long term storage it is accentration of glycerol is 50%. Customers
Reconsititution			· -	
	recommended to add 5-50 could use it as reference.	0% of glycerol (final concent	ration). Our default final cor	ncentration of glycerol is 50%. Customers
Reconsititution Storage & Stability	recommended to add 5-50 could use it as reference. Stored at -20°C for 2 years	0% of glycerol (final concent . After reconstitution, it is st	ration). Our default final cor able at 4°C for 1 week or -20°	
	recommended to add 5-50 could use it as reference. Stored at -20°C for 2 years	0% of glycerol (final concent	ration). Our default final cor able at 4°C for 1 week or -20°	ncentration of glycerol is 50%. Customers
	recommended to add 5-50 could use it as reference. Stored at -20°C for 2 years recommended to freeze a	0% of glycerol (final concent . After reconstitution, it is st	ration). Our default final cor able at 4°C for 1 week or -20° extended storage.	ncentration of glycerol is 50%. Customers

DESCRIPTION

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Background

KCNJ16, a member of inward rectifier potassium channels, exhibits a preference for allowing potassium influx rather than efflux, with its voltage sensitivity modulated by extracellular potassium concentration. The channel's inward rectification is primarily attributed to the inhibition of outward current by internal magnesium. Functionally, KCNJ16 is implicated in the regulation of fluid and pH balance. Particularly in the kidney, KCNJ16, in conjunction with KCNJ10, facilitates basolateral K(+) recycling in distal tubules, a critical process for Na(+) reabsorption in these tubules. As a heterodimer with KCNJ10, KCNJ16 forms an essential interaction with MAGI1, potentially contributing to the expression of potassium channels at the basolateral membrane in kidney cells. Moreover, KCNJ16 may engage in heterodimerization with Kir2.1/KCNJ2, expanding its functional associations within cellular membranes.

Caution: Product has not been fully validated for medical applications. For research use only.

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