LRRC52 Protein, Human (HEK293, His)

Cat. No.:	HY-P77991
Synonyms:	LRRC52; FLJ25811
Species:	Human
Source:	HEK293
Accession:	Q8N7C0 (S24-D244)
Gene ID:	440699
Molecular Weight:	35-48 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	LRRC52, an auxiliary protein associated with the large-conductance, voltage, and calcium-activated potassium channel (BK alpha), plays a crucial role in modulating the gating properties of the BK channel. It induces a significant shift in the voltage dependence of activation in the hyperpolarizing direction, particularly in the absence of calcium. Functioning as a KCNU1 channel auxiliary protein, LRRC52 may also influence the gating properties of KCNU1. The interaction between LRRC52 and KCNU1 is proposed to be essential for LRRC52 stability and may contribute to alterations in channel gating properties. Additionally, LRRC52 interacts with KCNMA1, further implicating its involvement in the regulation of BK channel activity.

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