

Product datasheet for PH322200

Kv1.2 (KCNA2) (NM_004974) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	KCNA2 MS Standard C13 and N15-labeled recombinant protein (NP_004965)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC222200
Predicted MW:	56.5 kDa
Protein Sequence:	>RC222200 representing NM_004974 Red=Cloning site Green=Tags(s)

MTVATGDPADAAALPGHPQDTYDPEADHECCERVVINISGLRFETQLKTLAQFPETLLGDPKRMRYFD
PLRNEYFFDRNRPSFDAILYYSQSGRLRRPVNVPLDIFSEEIRFYELGEEAMEMFREDEGYIKEEERPL
PENEFQRQVWLLFEYPSSGPARIIAIVSVMVILISIVSFCLETLPIFRDENEDMHGSGVTFHTYSNSTI
GYQSTSFDPFFIVETLCIIWFSFEFLVRFACPSKAGFFTNIIMNIIDIVAIIPYFITLGTSLAEKPED
AQQGQAMSLAILRVIRLVRFVRFKLSRHSKGLQILGQTLKASMRELGLLIFFLFIGVILFSSAVYFAE
ADERESQFPSIPDAFWAVVSMTTVGYGDMVPTTIGGKIVGSLCAIAGVLTIALPVPVIVSNFNFYHRE
TEGEEQAQYLQVTSCPkipSSPDLKKSRSASTISKSDYMEIQEGVNNSNEDFREENLKTANCTLANCTNYV
NITKMLTDV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_004965</u>
RefSeq Size:	2142
RefSeq ORF:	1497



[View online »](#)

Synonyms: DEE32; EIEE32; HBK5; HK4; HUKIV; KV1.2; MK2; NGK1; RBK2

Locus ID: 3737

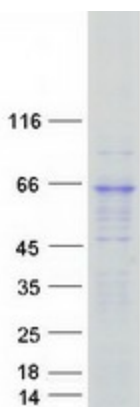
UniProt ID: [P16389](#)

Cytogenetics: 1p13.3

Summary: Potassium channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. Four sequence-related potassium channel genes - shaker, shaw, shab, and shal - have been identified in *Drosophila*, and each has been shown to have human homolog(s). This gene encodes a member of the potassium channel, voltage-gated, shaker-related subfamily. This member contains six membrane-spanning domains with a shaker-type repeat in the fourth segment. It belongs to the delayed rectifier class, members of which allow nerve cells to efficiently repolarize following an action potential. The coding region of this gene is intronless, and the gene is clustered with genes KCNA3 and KCNA10 on chromosome 1. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Ion Channels: Potassium, Transmembrane

Product images:



Coomassie blue staining of purified KCNA2 protein (Cat# [TP322200]). The protein was produced from HEK293T cells transfected with KCNA2 cDNA clone (Cat# [RC222200]) using MegaTran 2.0 (Cat# [TT210002]).