

Recombinant Rat Potassium voltage-gated channel subfamily E member 2(Kcne2)

Catalog No: #AP70464

Package Size: #AP70464-1 20ug #AP70464-2 100ug #AP70464-3 1mg

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Description

Product Name	Recombinant Rat Potassium voltage-gated channel subfamily E member 2(Kcne2)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-123aaSequence Info:Full Length
Other Names	MinK-related peptide 1Minimum potassium ion channel-related peptide 1;Potassium channel subunit beta MiRP1
Accession No.	P63161
Calculated MW	18.4 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MTTLANLTQTLEDAFKKVFITYMDSWRRNTTAEQQALQARVDAENFYVILYLMVMIGMF AFIVVAILVSTVKSK RREHSQDPYHQYIVEDWQQKYRSQILHLEDSKATIHENLGATGFTVSP
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

Ancillary protein that assembles as a beta subunit with a voltage-gated potassium channel complex of pore-forming alpha subunits. Modulates the gating kinetics and enhances stability of the channel complex. Associated with KCNH2,HERG is proposed to form the rapidly activating component of the delayed rectifying potassium current in heart (IKr). May associate with KCNQ2 and/or KCNQ3 and modulate the native M-type current. May associate with KCNQ1,KCLQT1 and elicit a voltage-independent current .

References

MinK-related peptide 1 a beta subunit for the HCN ion channel subunit family enhances expression and speeds activation.Yu H., Wu J., Potapova I., Wymore R.T., Holmes B., Zuckerman J., Pan Z., Wang H., Shi W., Robinson R.B., El-Maghrabi M.R., Benjamin W., Dixon J.E., McKinnon D., Cohen I.S., Wymore R.Circ. Res. 88:E84-E87(2001)Research Topic:Others

Note: This product is for in vitro research use only and is not intended for use in humans or animals.