

hERG Protein, Human (HEK293, GFP, His)

Cat. No.:	HY-P701834
Synonyms:	KCNH2; Potassium voltage-gated channel subfamily H member 2; Eag homolog; Ether-a-go-go-related gene potassium channel 1; ERG-1; Eag-related protein 1; Ether-a-go-go-related protein 1; H-ERG; hERG-1; hERG1; Voltage-gated potassium channel subunit Kv11.1
Species:	Human
Source:	HEK293
Accession:	Q12809
Gene ID:	3757
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
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	<p>hERG, the pore-forming (alpha) subunit of the voltage-gated inwardly rectifying potassium channel, plays a pivotal role in mediating the rapidly activating component of the delayed rectifying potassium current in the heart (IKr). While it lacks channel activity on its own, hERG dynamically influences channel properties through the formation of heterotetramers with other isoforms. This subunit assembly not only modulates the channel characteristics but also leads to the intracellular retention of the heterotetramers, subsequently undergoing ubiquitin-dependent degradation. The intricate interplay of hERG with other isoforms highlights its regulatory function in the finely tuned orchestration of potassium currents crucial for cardiac physiology.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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