δίαυλοι

Current	Channel	Gating mechanism	Functional role
i _{K1}	K° channel (inward rectifier), K _{ir}	Voltage	Maintains high K* permeability during phase 4 Its decay contributes to diastolic depolarization Its suppression during phases 0-2 contributes to plateau
Î _{Na}	Na+ channel (fast) Nav 1.5	Voltage	Accounts for phase 0 of action potential Inactivation may contribute to phase 1 of action potential
i _{To}	K ⁺ channel (transient outward), K _{to}	Voltage	Contributes to phase 1 of action potential
i _{cs}	Ca ²⁺ channel (slow inward, L channels) Cav 1.2	Both	Contributes to phase 2 of action potential lnactivation may contribute to phase 3 of action potential ls enhanced by sympathetic stimulation and β -adrenergic agents
i _K	K* channels (delayed rectifier), K _s , K _s , K _u ,	Voltage	Causes phase 3 of action potential Is enhanced by increased intracellular Ca ²
i _{katp}	K+ channel (ATP-sensitive)	Ligand	Increases K* permeability when [ATP] is low
İ _{KACH}	K* channel (acetylcholine- activated)	Ligand	Responsible for effects of vagal stimulation Decreases diastolic depolarization (and the heart rate) Hyperpolarizes resting membrane potential Shortens phase 2 of the action potential
i, ("funny")	Na ⁺ , Ca ⁺⁺ , K ⁺ (pacemaker current via HCN channel)	Both	Is activated by hyperpolarization and cyclic nucleotides and contributes to the diastolic depolarization Is enhanced by sympathetic stimulation and β-adrenergic agents Is suppressed by vagal stimulation