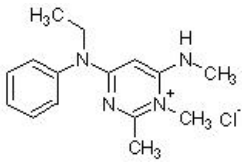
abcam

Product datasheet

ZD7288, Sino-atrial node function modulator ab120102

24 References 2 图像

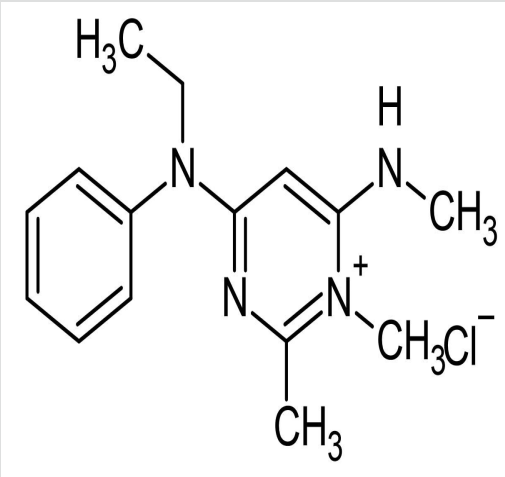
概述

产品名称	ZD7288, Sino-atrial node function modulator
描述	Sino-atrial node function modulator
生物学描述	Sino-atrial node function modulator; blocks the hyperpolarisation activated inward current I_f. Also inhibits I_h in central neurons and inhibits synaptic transmission.
CAS编号	133059-99-1
化学结构	

性能

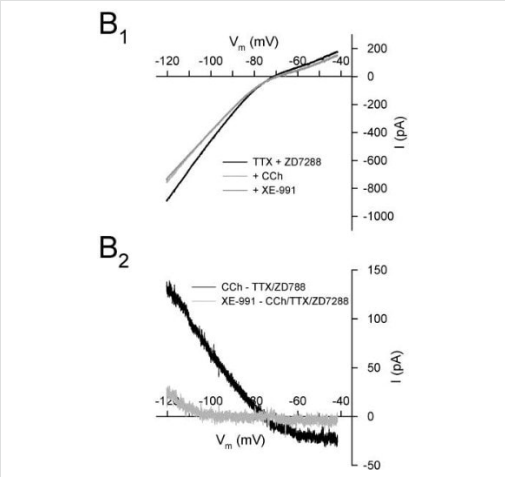
化学名称	4-Ethylphenylamino-1,2-dimethyl-6-methylaminopyrimidinium chloride
分子量	292.81
分子式	$C_{15}H_{21}ClN_4$
PubChem识别号	123983
存放说明	Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.
溶解度概述	Soluble in water to 100 mM
处理	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour. Need more advice on solubility, usage and handling? Please visit our **frequently asked questions (FAQ) page** for more details.
SMILES	[Cl-].C[n+]1c(NC)cc(nc1C)N(CC)c2ccccc2
来源	Synthetic

图片



Chemical Structure - ZD7288, Sino-atrial node function modulator (ab120102)

2D chemical structure image of ab120102, ZD7288, Sino-atrial node function modulator



Cellular activation - ZD7288, Sino-atrial node function modulator (ab120102)

Image from Glasgow D, et al. Plos One, 8(3), e58901. Fig 6B,; doi: 10.1371/journal.pone.0058901

Membrane currents during slow voltage ramps from ?120 mV to ? 40 mV in the presence of TTX (0.5 µM) and ZD7288 (50 µM), and during subsequent bath application of CCh (light grey line; 50 µM; B1) show that cholinergic receptor activation induces an inward current at voltages near resting membrane potential that reverses around ?76 mV, consistent the blockade of outward K+ currents. The application of CCh occluded additional inward current during subsequent bath application of XE-991 (dark grey line; 10 µM) sµggesting that CCh depolarizes PaS neurons in part by suppression of the M-current. Current subtractions show that CCh blocks an outward current that reverses at ?83.3±7.0 mV (black line; B2), and also occluded membrane currents normally induced by XE-991 (grey line).

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