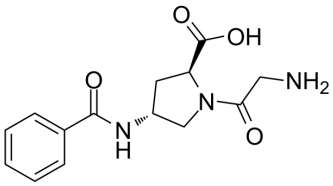
Danegaptide

Cat. No.:	HY-10913
CAS No.:	943134-39-2
Molecular Formula:	$C_{14}H_{17}N_3O_4$
Molecular Weight:	291.3
Target:	Gap Junction Protein
Pathway:	Cytoskeleton
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Danegaptide (GAP-134) is a potent, selective and orally active gap-junction modifier with an antiarrhythmic effect[1][2].
IC_{50} & Target	Gap junction.
In Vitro	Danegaptide (GAP-134, compound 9f; 0.01 nM-100 μM) dose dependently reduces dye uptake in cultured C6 glioma cells in a manner[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Danegaptide (GAP-134, compound 9f) is evaluated for in vivo efficacy in the mouse $CaCl_2$ model after oral administration. For doses of 5-20 mg/kg po, Danegaptide significantly prolongs the time to conduction block in mice after the infusion of $CaCl_2$[1]. Danegaptide (GAP-134) is biologically active upon oral administration at an average plasma concentration of 250 nM, and reduces atrial fibrillation in a dog model. Danegaptide has no effect on heart rate, arterial blood pressure or other electrocardiogram (ECG) parameters. Danegaptide is an effective antiarrhythmic compound in the setting of ischaemia/reperfusion-induced arrhythmogenesis in barbiturate-anesthetized, open-chest beagles[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Lab Invest. 2021 Sep 14.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. John A Butera, et al. Discovery of (2S,4R)-1-(2-aminoacetyl)-4-benzamidopyrrolidine-2-carboxylic acid hydrochloride (GAP-134)13, an orally active small molecule gap-junction modifier for the treatment of atrial fibrillation. J Med Chem. 2009 Feb 26;52(4):908-11.

[2]. Elke De Vuyst, et al. Pharmacological modulation of connexin-formed channels in cardiac pathophysiology. Br J Pharmacol. 2011 Jun;163(3):469-83.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA