

Product Data Sheet

Product Name: Rotigaptide

Cat. No.: GC39432

Chemical Properties

Cas. No. 355151-12-1

SMILES O=C(N)CNC([C@@H](C)NC(CNC([C@@H]1N(C([C@@H]2N(C([C@@H](CC3=CC=C(C(=O)C=C3)NC(C)=O)=O)CCC2)=O)C[C@@H](O)C1)=O)=O)=O

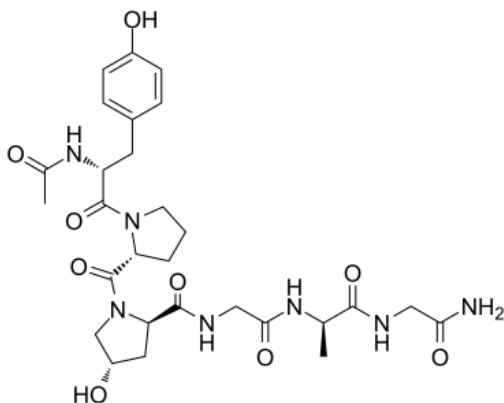
Formula $C_{28}H_{39}N_7O_9$ M.Wt 617.65

Solubility DMSO : 100 mg/mL (161.90 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Rotigaptide (ZP123) is a novel and specific modulator of connexin 43 (Cx43). Rotigaptide prevents the uncoupling of Cx43-mediated gap junction communication and normalizes cell-to-cell communication during acute metabolic stress. Rotigaptide is a potent antiarrhythmic peptide (AAP) with improved stability and has the potential for the investigation of cardiac arrhythmias-specifically atrial fibrillation[1][2].

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

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[1]. Seyed Mojtaba Ghiasi, et al. The connexin 43 regulator Rotigaptide reduces cytokine-induced cell death in human islets [2]. Stahlhut M, et al. The antiarrhythmic peptide rotigaptide (ZP123) increases connexin 43 protein expression in neonatal rat ventricular cardiomyocytes. *Cell Commun Adhes.* 2006 Jan-Apr;13(1-2):21-7. [3]. Kjølbye AL, et al. Pharmacological modulation of gap junction function with the novel compound rotigaptide: a promising new principle for prevention of arrhythmias. *Basic Clin Pharmacol Toxicol.* 2007 Oct;101(4):215-30.

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