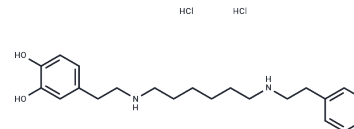


Dopexamine hydrochloride

Chemical Properties

CAS No. : 86484-91-5
 Formula: C₂₂H₃₄Cl₂N₂O₂
 Molecular Weight: 429.42
 Appearance: no data available
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Dopexamine hydrochloride (FPL60278AR) is a β 2-adrenergic receptor agonist. Dopexamine can attenuate the inflammatory response and protect against organ injury in the absence of significant effects on hemodynamics or regional microvascular flow.
Targets(IC50)	Adrenergic Receptor
In vitro	Dopexamine, a dopamine analogue, stimulates β -adrenergic as well as dopamine 1 and 2 receptors, offering vasodilatory effects. It effectively mitigates the systemic inflammatory response triggered by endotoxin, including the release of cytokines, the expression of endothelial adhesion molecules, and oxidative stress, without significantly affecting systemic hemodynamics, such as blood pressure or stroke volume. Additionally, dopexamine possesses agonist activity at β 2 and dopaminergic receptors, and at dosages that do not impact global hemodynamics or regional microvascular flow, it can diminish tissue leukocyte infiltration and confer protection against organ damage.

Solubility Information

Solubility	DMSO: 10 mg/mL (23.29 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3287 mL	11.6436 mL	23.2872 mL
5 mM	0.4657 mL	2.3287 mL	4.6574 mL
10 mM	0.2329 mL	1.1644 mL	2.3287 mL
50 mM	0.0466 mL	0.2329 mL	0.4657 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Bangash MN, et al. Dopexamine can attenuate the inflammatory response and protect against organ injury in the absence of significant effects on hemodynamics or regional microvascular flow. Crit Care. 2013 Mar 28;17(2):R57.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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