
Product Data Sheet

Product Name: Dopexamine hydrochloride (FPL60278AR)

Cat. No.: GC32627

Chemical Properties

Cas. No. 86484-91-5

SMILES [H]Cl.[H]Cl.Oc1=cc=C(CCNCCCCCNCCC2=CC=CC=C2)C=C1O

Formula C₂₂H₃₄Cl₂N₂O₂ M.Wt 429.42

Solubility DMSO : 100 mg/mL (232.87 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

Dopexamine hydrochloride is a β 2 adrenergic receptor agonist.

Dopexamine is a dopamine analogue with agonist activity at β 2 and dopaminergic receptors. Dopexamine can attenuate the systemic inflammatory response, reduce tissue leukocyte infiltration, and protect against organ injury at doses that do not alter global hemodynamics or regional microvascular flow[1]. Dopexamine is a dopamine analog that stimulates β -adrenergic and dopamine 1 and 2 receptors, conferring some vasodilatory effects. Dopexamine reduces the systemic inflammatory response to endotoxin, including cytokine release, endothelial adhesion molecules, and oxidative stress, without substantially changing systemic hemodynamics, either blood pressure or stroke volume[2].

[1]. 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. [2]. Hollenberg SM. Dopexamine: immunomodulatory, hemodynamic, or both? Crit Care. 2013 May 13;17(3):143.

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

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