

Product Datasheet

DOPEXAMINE

Catalog No. **BP-00009** · CAS **86197-47-9** · Form **free base** · Physical state **solid** · Version **1.0** · Revision **2026-09-24**

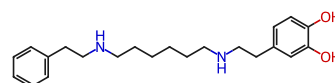
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Target Adrenergic Receptor	Research area Cardiovascular Disease; Endocrinology
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Molecular formula **C₂₂H₃₂N₂O₂**

Molecular weight **356.5017**

STRUCTURE



DESCRIPTION

Dopexamine is a β 2 adrenergic receptor agonist.

BIOLOGICAL ACTIVITY

In Vitro

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.

REFERENCES

[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.

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