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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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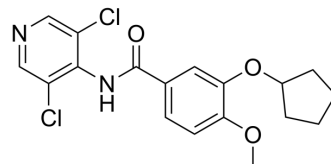
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Piclamilast (Standard)

Cat. No.:	HY-12887R
CAS No.:	144035-83-6
Molecular Formula:	C ₁₈ H ₁₈ Cl ₂ N ₂ O ₃
Molecular Weight:	381.25
Target:	Phosphodiesterase (PDE)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Piclamilast (Standard) is the analytical standard of Piclamilast. This product is intended for research and analytical applications. Piclamilast (RP 73401) is a phosphodiesterase 4 (PDE4) inhibitor, with IC₅₀ values of 16 nM and 2 nM in pig aorta and eosinophil soluble, respectively^{[1][2][3][4]}.

REFERENCES

- [1]. M J Ashton, et al. Selective type IV phosphodiesterase inhibitors as antiasthmatic agents. The syntheses and biological activities of 3-(cyclopentyloxy)-4-methoxybenzamides and analogues. *J Med Chem.* 1994 May 27;37(11):1696-703.
- [2]. Manuel Mata, et al. Piclamilast inhibits the pro-apoptotic and anti-proliferative responses of A549 cells exposed to H₂O₂ via mechanisms involving AP-1 activation. *Free Radic Res.* 2012 May;46(5):690-9.
- [3]. Edoardo Parrella, et al. Phosphodiesterase IV inhibition by piclamilast potentiates the cytodifferentiating action of retinoids in myeloid leukemia cells. Cross-talk between the cAMP and the retinoic acid signaling pathways. *J Biol Chem.* 2004 Oct 1;279(40):42026-40.
- [4]. T Ukita, et al. Novel, potent, and selective phosphodiesterase-4 inhibitors as antiasthmatic agents: synthesis and biological activities of a series of 1-pyridyl-naphthalene derivatives. *J Med Chem.* 1999 Mar 25;42(6):1088-99.

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

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