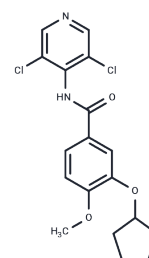


Piclamilast

Chemical Properties

CAS No. :	144035-83-6
Formula:	C ₁₈ H ₁₈ Cl ₂ N ₂ O ₃
Molecular Weight:	381.25
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Piclamilast (RP 73401) is a PDE4 inhibitor.
Targets(IC50)	PDE
In vitro	Piclamilast pre-treatment significantly inhibited the changes in 23 genes via mechanisms involving AP-1 activation and c-Jun phosphorylation at Ser63[1]. The IC50s for Piclamilast was 16 nM and 2 nM in pig aorta and eosinophil soluble, respectively. Piclamilast exhibited IC50 values >100 µM, 40 µM, >100 µM, 14 µM for PDE1, PDE2, PDE3 and PDE5. Respectively[4].
In vivo	Initial in vivo studies conducted in severe combined immunodeficiency mice transplanted with NB4 leukemia cells indicate that the enhancing effect of piclamilast on ATRA-induced myeloid maturation translates into a therapeutic benefit[2].

Solubility Information

Solubility	DMSO: 30 mg/ml(78.69 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.623 mL	13.1148 mL	26.2295 mL
5 mM	0.5246 mL	2.623 mL	5.2459 mL
10 mM	0.2623 mL	1.3115 mL	2.623 mL
50 mM	0.0525 mL	0.2623 mL	0.5246 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

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481