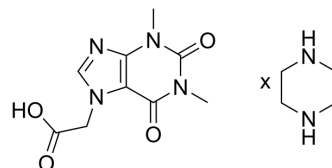


Acefylline piperazine

Cat. No.:	HY-B1505A
CAS No.:	18833-13-1
Molecular Formula:	C ₉ H ₁₀ N ₄ O ₄ .xC ₄ H ₁₀ N ₂
Target:	Adenosine Receptor; HDAC; Protein Arginine Deiminase; Phosphodiesterase (PDE)
Pathway:	GPCR/G Protein; Cell Cycle/DNA Damage; Epigenetics; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Acefylline piperazine, a xanthine derivative, is an Adenosine Receptor antagonist. Acefylline piperazine is a peptidylarginine deiminase (PAD) activator. Acefylline piperazine is also a bronchodilator and cardiac stimulant that inhibits rat lung cAMP phosphodiesterase isoenzymes. Acefylline piperazine can be used in asthma research ^{[1][2][3]} .
In Vitro	Acefylline piperazine (200 μM; 5-180 min) is an effective PDA activator ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Molecules. 2024 May 23.

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REFERENCES

- [1]. Ferretti C, et al. Inhibitory effect of theophylline, theophylline-7-acetic acid, ambroxol and ambroxol-theophylline-7-acetate on rat lung cAMP phosphodiesterase isoenzymes. *Int J Tissue React.* 1992;14(1):31-6.
- [2]. Méchin MC, et, al. Acefylline activates filaggrin deimination by peptidylarginine deiminases in the upper epidermis. *J Dermatol Sci.* 2016 Feb;81(2):101-6.
- [3]. Tsvetkova B, Tencheva J, Peikov P. Esterification of 7-theophyllineacetic acid with diethylene glycol monomethyl ether. *Acta Pharm.* 2006 Jun;56(2):251-7. PMID: 16613730.

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

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