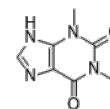


Product Name : Theophylline
Cat. No. : PC-28124
CAS No. : 58-55-9
Molecular Formula : C₇H₈N₄O₂
Molecular Weight : 180.17
Target : Phosphodiesterase (PDE)
Solubility : 10 mM in DMSO



Biological Activity

Theophylline (1,3-Dimethylxanthine) is a non-selective oral phosphodiesterase (**PDE**) inhibitor, is also a adenosine receptor antagonist and histone deacetylase (**HDAC**) activator, inhibits PDE3 activity to relax airway smooth muscle, also has anti-inflammatory activity by increase IL-10 and inhibits **NF-κB**, induces apoptosis.

References

- Katz S, et al. *Br J Pharmacol*. 1973 Jul;48(3):505-15.
Uzunov P, et al. *Acta Neurobiol Exp (Wars)*. 1975;35(2):159-64.
Haliotis T, et al. *J Natl Cancer Inst*. 1984 May;72(5):991-8.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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