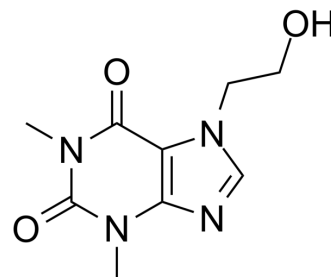


Etofylline

| | | | |
|---------------------------|--|-------|----------|
| Cat. No.: | HY-B1209 | | |
| CAS No.: | 519-37-9 | | |
| Molecular Formula: | C ₉ H ₁₂ N ₄ O ₃ | | |
| Molecular Weight: | 224.22 | | |
| Target: | Others | | |
| Pathway: | Others | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

In Vitro

H₂O : 50 mg/mL (223.00 mM; Need ultrasonic)
 DMSO : 25 mg/mL (111.50 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent Concentration | Mass | | |
|---------------------------|-----------------------|-----------|------------|------------|
| | | 1 mg | 5 mg | 10 mg |
| | 1 mM | 4.4599 mL | 22.2995 mL | 44.5991 mL |
| | 5 mM | 0.8920 mL | 4.4599 mL | 8.9198 mL |
| | 10 mM | 0.4460 mL | 2.2300 mL | 4.4599 mL |

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (11.15 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.5 mg/mL (11.15 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (11.15 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Etofylline (7-(β-Hydroxyethyl)theophylline) is a N-7-substituted derivative of Theophylline. Etofylline is a bronchodilator which can be used for the research of asthma. Etofylline is also an anticholesteremic and reduces total cholesterol level in the blood^{[1][2]}.

REFERENCES

[1]. Siemon G, et, al. [The effect of fominoben and oxyethyltheophylline in combination on pulmonary function and pulmonary hemodynamics in chronic-obstructive diseases of the airways (author's transl)]. *Arzneimittelforschung*. 1978;28(4):698-700.

[2]. Ufkes JG, et, al. Efficacy of theophylline and its N-7-substituted derivatives in experimentally induced bronchial asthma in the guinea-pig. *Arch Int Pharmacodyn Ther*. 1981 Oct;253(2):301-14.

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

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