# Conessine

**Cat. No.:** HY-107566

**CAS No.:** 546-06-5

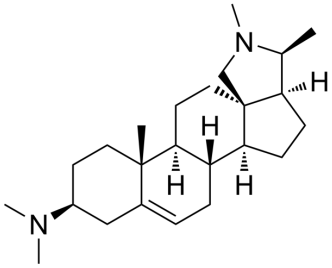
**Molecular Formula:** $C_{24}H_{40}N_2$

**Molecular Weight:** 356.59

**Target:** Histamine Receptor; Parasite

**Pathway:** GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling; Anti-infection

**Storage:** -20°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



## SOLVENT & SOLUBILITY

**In Vitro**

Ethanol : 25 mg/mL (70.11 mM; Need ultrasonic)

| Preparing Stock Solutions | Mass / Solvent / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 2.8043 mL | 14.0217 mL | 28.0434 mL |
| | 5 mM | 0.5609 mL | 2.8043 mL | 5.6087 mL |
| | 10 mM | 0.2804 mL | 1.4022 mL | 2.8043 mL |

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

## BIOLOGICAL ACTIVITY

**Description**

Conessine, a steroidal alkaloid, is a potent and selective histamine $H_3$ receptor antagonist with $K_i$s of 5.4, 6.0, 5.7 and 25 nM for human, dog, guinea pig, and rat H $H_3$ receptor, respectively. Anti-malarial activity[1].

**$IC_{50}$ & Target**

| | | | |
|---|---|---|---|
| Plasmodium | $H_3$ Receptor<br>5.4 nM (Ki) | rat $H_3$ receptor<br>25 nM (Ki) | Guinea pig $H_3$ Receptor<br>6.0 nM (Ki) |
| Dog $H_3$ Receptor<br>5.7 nM (Ki) | | | |

## REFERENCES

[1]. Santora VJ, et al. A new family of H3 receptor antagonists based on the natural product Conessine. Bioorg Med Chem Lett. 2008;18(4):1490-1494.

[2]. Kim H, et al. Conessine treatment reduces dexamethasone-induced muscle atrophy by regulating MuRF1 and atrogin-1 expression [published online ahead of print, 2018 Feb 1]. J Microbiol Biotechnol. 2018;10.4014.jmb.1711.11009.

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

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