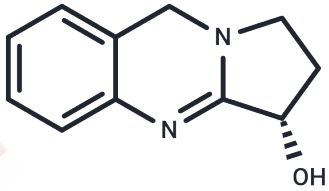
# Data Sheet (Cat.No.T4960)

TargetMol

## VASICINE

### Chemical Properties




CAS No. : 6159-55-3

Formula: C11H12N2O

Molecular Weight: 188.23

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

### Biological Description

| | |
|---|---|
| Description | Vasicine is oxytocic and abortifacient agents.Vasicine, a potential natural cholinesterase inhibitor, has been in development for treatment of Alzheimer's disease. Vasicine can regulate the inflammatory reaction, have great potentials to develop safe medications for respiratory and reproductive medicine. |
| Targets(IC50) | Anti-infection,Akt,Antibacterial,AChR,PI3K |

### Solubility Information

| | |
|---|---|
| Solubility | DMSO: 10 mM,Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (10.63 mM),Sonication is recommended.<br>*Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.* |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 5.3126 mL | 26.5632 mL | 53.1265 mL |
| 5 mM | 1.0625 mL | 5.3126 mL | 10.6253 mL |
| 10 mM | 0.5313 mL | 2.6563 mL | 5.3126 mL |
| 50 mM | 0.1063 mL | 0.5313 mL | 1.0625 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Hasegawa H , Matsumiya S , Uchiyama M , et al. Inhibitory Effect of Some Triterpenoid Saponins on Glucose Transport in Tumor Cells and its Application to\r, in vitro\r, Cytotoxic and Antiviral Activities[J]. Planta Medica, 1994, 60(03):240-243.

Liu W , Shi X , Yang Y , et al. Correction: In Vitro and In Vivo Metabolism and Inhibitory Activities of Vasicine, a Potent Acetylcholinesterase and Butyrylcholinesterase Inhibitor[J]. PLOS ONE, 2015, 10(6):e20129759-.



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