

## Bucolome

## Chemical Properties

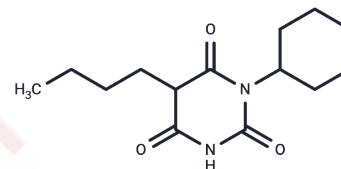
CAS No. : 841-73-6

Formula: C<sub>14</sub>H<sub>22</sub>N<sub>2</sub>O<sub>3</sub>

Molecular Weight: 266.34

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   | Bucolome (Paramidine) is a CYP2C9 inhibitor with uricosuric and anti-inflammatory activity.   |
| Targets(IC50) | Cytochromes P450, Immunology/Inflammation related   |
| In vitro      | In studies with recombinant human cytochrome P-450 2C9 and liver microsomes, Bucolome is a potent mixed-type inhibitor for (S)-warfarin 7-hydroxylation, with Ki of 8.2 and 20.2 microM, respectively[1]. |

## Solubility Information

|                     |   |
|---------------------|---|
| Solubility          | DMSO: 50 mg/mL (187.73 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 (7.51 mM), Sonication is recommended.<br><i>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.</i> |

### Preparing Stock Solutions

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|       | 1mg       | 5mg       | 10mg      |
|-------|-----------|-----------|-----------|
| 1 mM  | 3.7546 mL | 18.773 mL | 37.546 mL |
| 5 mM  | 0.7509 mL | 3.7546 mL | 7.5092 mL |
| 10 mM | 0.3755 mL | 1.8773 mL | 3.7546 mL |
| 50 mM | 0.0751 mL | 0.3755 mL | 0.7509 mL |

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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

Takahashi H, et al. Pharmacokinetic interaction between warfarin and a uricosuric agent, bucolome: application of In vitro approaches to predicting In vivo reduction of (S)-warfarin clearance. Drug Metab Dispos. 1999 Oct;27(10): 1179-86.

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