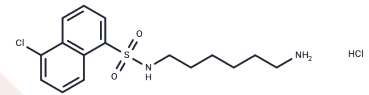


## W-7 hydrochloride

## Chemical Properties

|                   |  |
|-------------------|--|
| CAS No. :         | 61714-27-0   |
| Formula:          | C <sub>16</sub> H <sub>22</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>2</sub> S  |
| Molecular Weight: | 377.32   |
| Storage:          | Store at low temperature<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br><i>Actual storage temperature shall be subject to the COA.</i> |



## Biological Description

|               |  |
|---------------|--|
| Description   | W-7 hydrochloride (W-7 HCl), a calmodulin antagonist, inhibits Ca <sup>2+</sup> -calmodulin-dependent myosin light chain kinase and phosphodiesterase, W-7 hydrochloride induces apoptosis and has antitumor activity. |
| Targets(IC50) | CaMK, Apoptosis, Myosin, PDE, Potassium Channel  |

## Solubility Information

|                     |  |
|---------------------|--|
| Solubility          | DMSO: 250 mg/mL (662.57 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: 5 mg/mL (13.25 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

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.6503 mL | 13.2514 mL | 26.5027 mL |
| 5 mM  | 0.5301 mL | 2.6503 mL  | 5.3005 mL  |
| 10 mM | 0.265 mL  | 1.3251 mL  | 2.6503 mL  |
| 50 mM | 0.053 mL  | 0.265 mL   | 0.5301 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

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