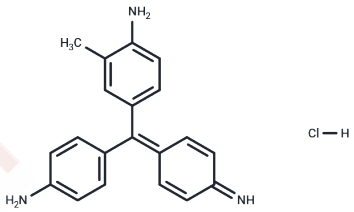
# Data Sheet (Cat.No.T18994)

TargetMol

## Fuchsine base monohydrochloride

### Chemical Properties



CAS No. : 632-99-5

Formula: C20H20ClN3

Molecular Weight: 337.85

Storage: Keep away from direct sunlight
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 | Fuchsine base monohydrochloride (Rosaniline Base monohydrochloride) is a magenta dye and uses for acid-fast staining with carbol-fuchsin. |
| Targets(IC50) | Others,Antibacterial,Antifungal |
| Cell Research | 1. Carbol Fuchsin Staining Method<br><br>1. Prepare the carbol fuchsin solution, which consists of fuchsine and phenol.<br><br>2. Drop the dye solution on the sample on the slide.<br><br>3. Heat the sample and maintain a certain temperature (such as around 60°C) to allow the dye to penetrate the cell structure.<br><br>4. Stain for about 5-10 minutes.<br><br>5. Then use acid alcohol (usually 3% hydrochloric acid alcohol) to decolorize and remove unwanted staining.<br><br>6. Finally, use contrast staining such as methylene blue or Gram staining for final observation.<br><br>2. Acid-fast staining:<br><br>1. Because carbol fuchsin has a strong affinity with acid and alcohol, it is often used to stain acid-fast bacteria (such as Mycobacterium tuberculosis).<br><br>2. These bacteria can remain red during the staining process, while other bacteria are removed and appear blue or other colors.<br><br>The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands. |

## Solubility Information

| | |
|---|---|
| Solubility | DMSO: 55 mg/mL (162.79 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: 2.5 mg/mL (7.4 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 | 2.9599 mL | 14.7995 mL | 29.5989 mL |
| 5 mM | 0.592 mL | 2.9599 mL | 5.9198 mL |
| 10 mM | 0.296 mL | 1.4799 mL | 2.9599 mL |
| 50 mM | 0.0592 mL | 0.296 mL | 0.592 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.