

Rimantadine

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 13392-28-4 |
| Formula: | C ₁₂ H ₂₁ N |
| Molecular Weight: | 179.3 |
| Storage: | Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small> |



Biological Description

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|----------------------------|--|
| Description | Rimantadine (1-Rimantadine) (Flumadine) is an anti-influenza virus drug for T. brucei with IC ₅₀ of 7 μM. |
| Targets(IC ₅₀) | Autophagy, Influenza Virus |

Solubility Information

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|---------------------|--|
| Solubility | Ethanol: 31 mg/mL (172.89 mM), Sonication is recommended. DMSO: 31 mg/mL (172.89 mM), Sonication is recommended. H ₂ O: 30 mg/mL (167.32 mM), Sonication is recommended. (< 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 (11.15 mM), Sonication is recommended. <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 | 5.5772 mL | 27.8862 mL | 55.7724 mL |
| 5 mM | 1.1154 mL | 5.5772 mL | 11.1545 mL |
| 10 mM | 0.5577 mL | 2.7886 mL | 5.5772 mL |
| 50 mM | 0.1115 mL | 0.5577 mL | 1.1154 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

Tzeng JI, et al. *Neurosci Lett.* 2016 Apr 8;618:94-8.

Wright AK, et al. *J Am Chem Soc.* 2016 Feb 10;138(5):1506-9.

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