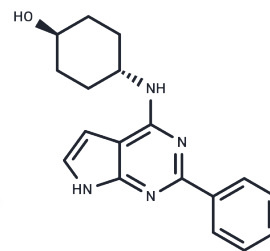


Derenofylline

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 251945-92-3 |
| Formula: | C ₁₈ H ₂₀ N ₄ O |
| Molecular Weight: | 308.38 |
| 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 | Derenofylline is a selective and potent adenosine A(1) antagonist in vitro (K _i =1 nM) |
| Targets(IC50) | Adenosine Receptor |

Solubility Information

| | |
|---------------------|--|
| Solubility | DMSO: 22.5 mg/mL (72.96 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: 5 mg/mL (16.21 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 | 3.2428 mL | 16.2138 mL | 32.4275 mL |
| 5 mM | 0.6486 mL | 3.2428 mL | 6.4855 mL |
| 10 mM | 0.3243 mL | 1.6214 mL | 3.2428 mL |
| 50 mM | 0.0649 mL | 0.3243 mL | 0.6486 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

Kalk P, et al. The adenosine A1 receptor antagonist SLV320 reduces myocardial fibrosis in rats with 5/6 nephrectomy without affecting blood pressure. Br J Pharmacol. 2007 Aug;151(7):1025-32.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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