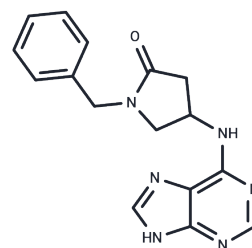


## (Rac)-Benpyrine

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 1333714-43-4  |
| Formula:          | C <sub>16</sub> H <sub>16</sub> N <sub>6</sub> O  |
| Molecular Weight: | 308.34  |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



## Biological Description

|               |  |
|---------------|--|
| Description   | (Rac)-Benpyrine is a potent and orally active inhibitor of TNF- $\alpha$ . |
| Targets(IC50) | TNF  |

## Solubility Information

|                     |   |
|---------------------|---|
| Solubility          | DMSO: 4.4 mg/mL (14.27 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: 1 mg/mL (3.24 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  | 3.2432 mL | 16.2159 mL | 32.4317 mL |
| 5 mM  | 0.6486 mL | 3.2432 mL  | 6.4863 mL  |
| 10 mM | 0.3243 mL | 1.6216 mL  | 3.2432 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

Hua Li, et al. Compound with TNF-  $\alpha$  inhibitory activity and application. CN111320630A.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481