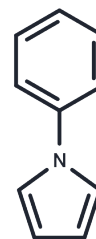


1-Phenylpyrrole

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 635-90-5 |
| Formula: | C ₁₀ H ₉ N |
| Molecular Weight: | 143.19 |
| 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 | 1-Phenylpyrrole (NSC-16581) is an inhibitor of CYP450 dependant monooxygenase activity in microsomes from rat liver. |
| Targets(IC50) | Others |

Solubility Information

| | |
|---------------------|--|
| Solubility | DMSO: 10 mg/mL (69.84 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: 1 mg/mL (6.98 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 | 6.9837 mL | 34.9186 mL | 69.8373 mL |
| 5 mM | 1.3967 mL | 6.9837 mL | 13.9675 mL |
| 10 mM | 0.6984 mL | 3.4919 mL | 6.9837 mL |
| 50 mM | 0.1397 mL | 0.6984 mL | 1.3967 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

- Fdez Galván I, et al. Solvent Effects on the Structure and Spectroscopy of the Emitting States of 1-Phenylpyrrole. *J Chem Theory Comput.* 2011 Jun 14;7(6):1850-7.
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- Fleisher AJ, et al. High-resolution electronic spectroscopy of the doorway states to intramolecular charge transfer. *J Phys Chem B.* 2013 Apr 25;117(16):4231-40.
- Faigl F, et al. Synthesis of atropisomeric 1-phenylpyrrole-derived amino alcohols: new chiral ligands. *Chirality.* 2012 Jul;24(7):532-42.

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