

1-Phenylpyrrole

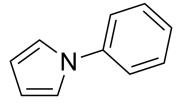
Cat. No.: HY-124891 CAS No.: 635-90-5 Molecular Formula: C₁₀H₉N Molecular Weight: 143.19 Others Target: Pathway: Others

Storage: Powder -20°C 3 years

2 years

-80°C 6 months In solvent

> -20°C 1 month



Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (698.37 mM; Need ultrasonic)

| | Solvent Mass Concentration | 1 mg | 5 mg | 10 mg | |
|------------------------------|-------------------------------|-----------|------------|------------|--|
| Preparing Stock Solutions | 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 | |

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (17.46 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (17.46 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (17.46 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

1-Phenylpyrrole (N-Phenylpyrrole) has dual fluorescent properties. 1-Phenylpyrrole displays a single band in nonpolar solvents and a second red-shifted fluorescent band in polar solvents^[1].

REFERENCES

| 11 5 1 6 1 / 1 1 1 6 1 1 | | | | |
|-----------------------------------|----------------------------|-------------------------------------|---|--------------|
| 1]. Fdez Gaivan I, et al. Solvent | Effects on the Structure a | nd Spectroscopy of the Emitting Sta | ates of 1-Phenylpyrrole. J Chem Theory Comput. 2011 Jun 14; | 7(6):1850-7. |
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| | Caution: Product has | not been fully validated for me | dical applications. For research use only. | |
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