

Perylene

Chemical Properties

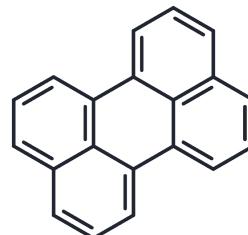
CAS No. : 198-55-0

Formula: C₂₀H₁₂

Molecular Weight: 252.31

Appearance: Solid

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

| | |
|---------------|---|
| Description | Perylene is a polycyclic aromatic hydrocarbon (PAH) composed of multiple fused benzene rings, used as a photosensitiser and fluorescent probe, widely applied in biochemical experiments and drug synthesis research. |
| Targets(IC50) | Others |

Solubility Information

| | |
|------------|--|
| Solubility | DMSO: 1 mg/mL (3.96 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.9634 mL | 19.8169 mL | 39.6338 mL |
| 5 mM | 0.7927 mL | 3.9634 mL | 7.9268 mL |
| 10 mM | 0.3963 mL | 1.9817 mL | 3.9634 mL |
| 50 mM | 0.0793 mL | 0.3963 mL | 0.7927 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.

Reference

Zhao Z, et al. Perylene diimide-based treatment and diagnosis of diseases. *J Mater Chem B*. 2021 Nov 10;9(43): 8937-8950.

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