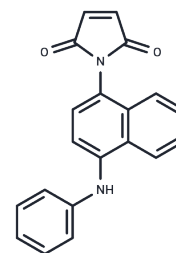


N-(4-Anilino-1-naphthyl)maleimide

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 50539-45-2 |
| Formula: | C ₂₀ H ₁₄ N ₂ O ₂ |
| Molecular Weight: | 314.34 |
| 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 | N-(4-Anilino-1-naphthyl)maleimide serves as a fluorescent probe for detecting thiol groups in proteins, reacting with these groups to instantly form a stable fluorescent compound characterized by $\lambda_{ex} = 355 \text{ nm}$ and $\lambda_{em} = 448 \text{ nm}$ [1]. |
| Targets(IC50) | Others |
| In vitro | N-(4-Anilino-1-naphthyl)maleimide serves as a labeling agent for rabbit muscle fibers, with its fluorescence spectrum indicating their conformational shifts between relaxed and contracted states [2]. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.1813 mL | 15.9063 mL | 31.8127 mL |
| 5 mM | 0.6363 mL | 3.1813 mL | 6.3625 mL |
| 10 mM | 0.3181 mL | 1.5906 mL | 3.1813 mL |
| 50 mM | 0.0636 mL | 0.3181 mL | 0.6363 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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