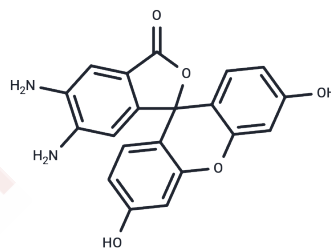


## 4,5-Diaminofluorescein

## Chemical Properties

|                   |  |
|-------------------|--|
| CAS No. :         | 205391-01-1  |
| Formula:          | C <sub>20</sub> H <sub>14</sub> N <sub>2</sub> O <sub>5</sub>  |
| Molecular Weight: | 362.34   |
| Storage:          | Keep away from direct sunlight<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br><small>Actual storage temperature shall be subject to the COA.</small> |



## Biological Description

|               |   |
|---------------|---|
| Description   | 4,5-Diaminofluorescein (DAF-2) is a highly sensitive fluorescent probe for selective Nitric Oxide (NO) detection. It reacts with NO to generate a triazole derivative for real-time monitoring. |
| Targets(IC50) | Others  |
| In vitro      | 4,5-Diaminofluorescein (0.1 $\mu$ M) reacts with NO to form fluorescent DAF-2T, allowing real-time NO monitoring [1][2].  |

## Solubility Information

|            |  |
|------------|--|
| Solubility | DMSO: 20 mg/mL (55.2 mM), Sonication is recommended.<br>( $< 1$ mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.7598 mL | 13.7992 mL | 27.5984 mL |
| 5 mM  | 0.552 mL  | 2.7598 mL  | 5.5197 mL  |
| 10 mM | 0.276 mL  | 1.3799 mL  | 2.7598 mL  |
| 50 mM | 0.0552 mL | 0.276 mL   | 0.552 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

Fu H, et al. Evaluation of molecules based on the electron donor-acceptor architecture as near-infrared  $\beta$ -amyloid-targeting probes. Chem Commun (Camb). 2014 Oct 14;50(80):11875-8.

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