Overview

Product name: CPM, Thiol-reactive fluorescent probe

Description: Thiol-reactive fluorescent probe.

Biological description: Widely used blue fluorescent thiol-reactive dye. Essentially non-fluorescent until it reacts with thiols, making it possible to quantify thiols without a separation step. Good energy acceptor from tryptophan and a good energy donor to fluorescein. Used to monitor release of thiols and to distinguish proliferating cancer cells by nucleolar protein staining.

Purity: > 95%

CAS Number: 76877-33-3

Chemical structure:

```
  O
  |   /
  N--O
   |   |
  H3C   H3C
       O

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Properties

Excitation: 391 nm

Emission: 472 nm

Chemical name: 7-Diethylamino-3-(4-maleimidylphenyl)-4-methylcoumarin

Molecular weight: 402.44

Molecular formula: C_{24}H_{22}N_{2}O_{4}

Storage instructions: Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.

Solubility overview: Soluble in DMSO

Handling: Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.
Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE, NOT FOR USE IN HUMANS"

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