Overview

Product name  CPM

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%

Properties

Excitation  391nm

Emission  472nm

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

Molecular weight  402.44

Chemical structure

![Chemical structure image]

Molecular formula  $C_{24}H_{22}N_2O_4$

CAS Number  76877-33-3

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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