

Lumiprobe Limited

8:00 - 17:00 HKT

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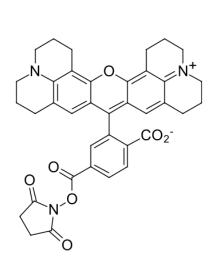
Email: hk@lumiprobe.com

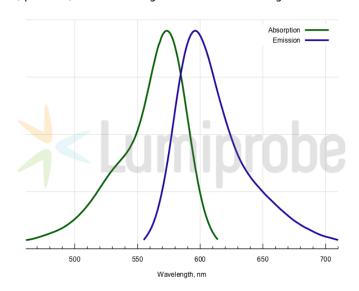
ROX NHS ester, 6-isomer

http://www.lumiprobe.com/p/6-rox-nhs-ester

ROX (Rhodamine X, R101) is a highly fluorescent, and photostable rhodamine dye for various applications. ROX labeled oligonucleotide probes are often used in qPCR, and qPCR instruments have ROX channel.

This is reactive dye for the labeling of amino-groups in peptides, proteins, and amino-oligonucleotides. Pure single isomer.





Absorption and emission spectra of ROX dye

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General properties

Appearance: dark crimson powder

Mass spec M+ increment: 516.2 Molecular weight: 631.67

CAS number: 117491-83-5; 1890922-83-4; 216699-36-4

Molecular formula: $C_{37}H_{33}N_3O_7$

Solubility: good in polar organic solvents (DMF, DMSO), low in water

Quality control: NMR ¹H, HPLC-MS (80+%, balance mostly free carboxylic acid)

Storage conditions: Storage: 12 months after receival at -20°C in the dark. Transportation: at room

temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

Spectral properties

Excitation/absorption maximum, nm: 570 ϵ , L·mol⁻¹·cm⁻¹: 88000 Emission maximum, nm: 591 Fluorescence quantum yield: 1.0 CF_{260} : 0.62 CF_{280} : 0.49