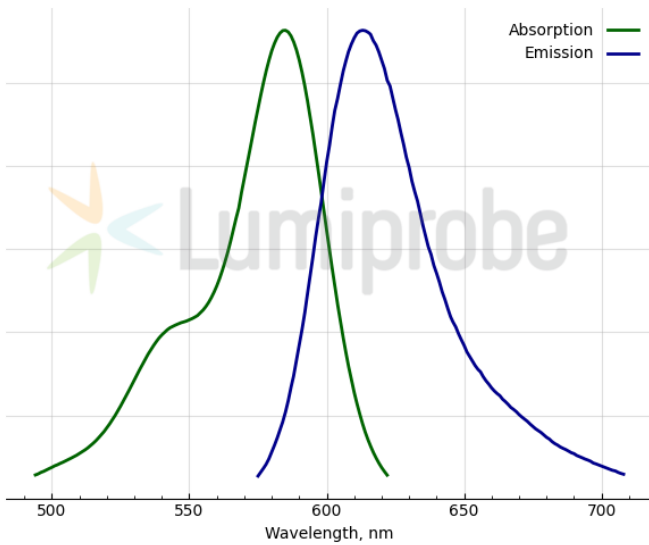


AF 594 C5 maleimide

<http://hk.lumiprobe.com/p/af-594-c5-maleimide>

AF594 C5 Maleimide is a bright, photostable fluorescent dye functionalized with a maleimide group via a flexible pentamethylene (C5) spacer. The maleimide moiety reacts selectively and rapidly with sulfhydryl (—SH) groups at physiological pH (6.5–7.5), forming stable thioether conjugates. The extended hydrophilic spacer minimizes steric hindrance, thereby enhancing the labeling efficiency of proteins, antibodies, peptides, and other biomolecules containing free cysteine residues or thiols introduced through the reduction of disulfide bonds.

The dye exhibits excellent water solubility and low pH sensitivity. It is ideally suited for confocal microscopy, super-resolution microscopy (STED, SIM), and long-duration experiments due to its high photobleaching resistance.



外觀:
分子 887.00
量:
分子式: $C_{44}H_{66}N_4O_{12}S_2$
IUPAC 4-[5-(2,5-dioxopyrrol-1-yl)pentylcarbonyl]-2-[6,7,7,19,19,20-hexamethyl-9,17-bis(sulfomethyl)-2-oxa-20-aza-6-azoniapentacyclo[12.8.0.0.3,12.0.5,10.0.16,21]docosa-1(14),3,5,8,10,12,15,17,21-nonaen-13-yl]benzoic
名稱: acid
溶解度:
質量控制: NMR ¹H, HPLC-MS (95%)
儲存條件:
法律聲明: 本產品僅供研究目的提供和銷售。本產品並未經過食品、藥品、醫療器械、化妝品等領域的安全性和效力測試，且未經明示或暗示授權用於其他任何用途，包括但不限於體外診斷、人類或動物用途，以及商業用途。

激发/ 586
吸收
极大
值,
纳米:
 ϵ , 摩
尔吸
光系
数 cm^2
发射 613
极大
值,
纳米:
荧光 0.77
量子
产率:
 CF_{280} 0.28
 CF_{280} 0.51