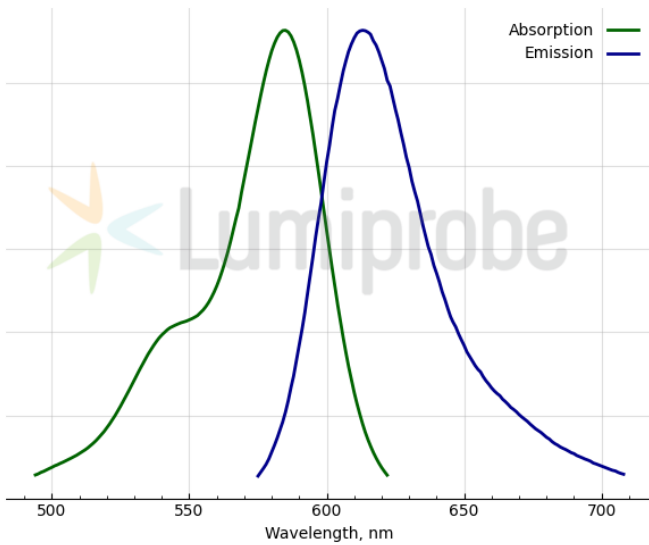


AF 594 C5 maleimide

<http://cn.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.



外观:
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-[6,7,7,19,20-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
名称: acid
溶解度:
质量 控制: NMR ¹H, HPLC-MS (95%)
储存 条件:
法律 声明: 本产品仅供研究目的提供和销售。 本产品并未经过食品、药品、医疗器械、化妆品等领域的安全性和效力测试, 且未经明示或暗示授权用于其他任何用途, 包括但不限于体外诊断、人类或动物用途, 以及商业用途。

激发/ 586
吸收
极大
值,
纳
米:
 ϵ , 摩
尔吸
光系
数 $M^{-1}cm^{-1}$
发射 613
极大
值,
纳
米:
荧光 0.77
量子
产率:
 CF_{260} 0.28
 CF_{280} 0.51