

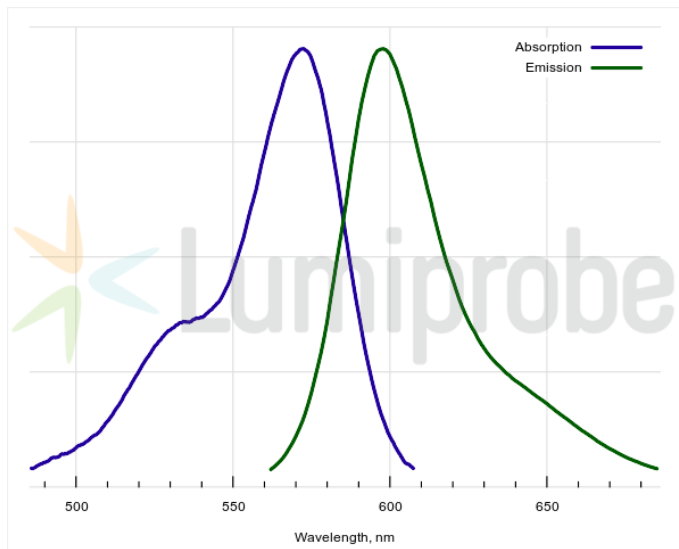
## AF 568 maleimide

<http://hk.lumiprobe.com/p/af-568-maleimide-6>

AF 568 maleimide is a bright orange-red fluorescent dye reactive toward thiol groups. The maleimide moiety selectively conjugates with sulfhydryl groups of cysteine residues in proteins, peptides, antibodies, and other biomolecules, forming stable thioether bonds. The dye provides high fluorescence intensity and excellent photostability, enabling efficient labeling for fluorescence microscopy, flow cytometry, and other bioanalytical applications.

AF 568 exhibits excitation and emission maxima compatible with standard TRITC/Cyanine3 imaging settings. The dye is well suited for multicolor experiments due to its minimal spectral overlap with green and far-red fluorophores.

Maleimide conjugation reactions proceed efficiently at near-neutral pH (typically pH 6.5-7.5), enabling selective labeling of free thiols under mild conditions. AF 568 maleimide can be used for labeling proteins, oligonucleotides, nanoparticles, and other thiol-containing molecules.



外观:

分子量: 935.13

分子式:  $C_{42}H_{40}K_2N_4O_{12}S_2$

溶解度: 水、二甲基亞砜

质量控制: NMR  $^1H$ , HPLC-MS (90%)

储存条件: 收到後 -20°C 避光保存 24 個月。運輸: 室溫最多可保存3週。乾燥。

法律声明: 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/吸收极大值, 纳米: 572

$\epsilon$ , 摩尔吸光系数,  $cm^{-1}$ : 94238

发射极大值, 纳米: 598

荧光量子产率: 0.912

$CF_{260}$ : 0.4

$CF_{280}$ : 0.32