

Pyrylium-4 (Py-4)

<http://hk.lumiprobe.com/p/pyrylium-4>

Pyrylium-4 (Py-4, Chromeo™ P543) is a fluorogenic amine-reactive dye that is not fluorescent itself but forms a fluorescent product with emission at 590 nm after conjugation with primary amine groups of peptides and proteins.

Pyrylium-4 displays a weak fluorescence with a quantum yield of less than 1% in solution. After conjugation to primary amines, the dye exhibits a color change from blue to red and undergoes a shortwave spectral shift of more than 27 nm, and the quantum yield rises to 15%. The shift of the absorption/emission bands and the increased fluorescence quantum yield significantly eliminate the background from an unbound dye. Also, unbound Pyrylium dyes are hydrolyzed during the labeling procedure. Altogether, these features allow the labeling of amine-containing molecules via a simple one-step, room-temperature incubation without additional purification steps.

Pyrylium-4-labeled peptides and proteins are ready to use immediately after conjugation. They can be used successfully in a number of «no-wash» applications, such as SDS-protein gel electrophoresis, capillary electrophoresis, isoelectric focusing, and as a fluorescent label in receptor binding studies. Proteins labeled with Pyrylium-4 maintain their native charge and isoelectric point.

外观:

分子量: 383.22

分子式: $C_{18}H_{18}BF_4NOS$

溶解度: DMSO、DMF、甲醇、乙腈

质量控制:

储存条件:

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: 570 nm (free); 543 nm (conjugated)

发射极大值, 纳米: Non-detectable (free); 590 nm (conjugated)

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