

Pyrylium-6 (Py-6)

<http://cn.lumiprobe.com/p/pyrylium-6>

Pyrylium-6 (Py-6, Chromeo™ P540) is a fluorogenic amine-reactive dye that is not fluorescent itself but forms a fluorescent product with emission at 627 nm after conjugation with primary amine groups of peptides and proteins.

Pyrylium-6 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 54 nm, and the quantum yield rises to 20%. 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-6-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-6 maintain their native charge and isoelectric point.

外观:
分子 443.29
量:
分子 $C_{25}H_{26}BF_4NO$
式:
溶解
度:
质量
控制:
储存
条件:

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激发/吸收极大值, 纳米: 587 nm (free); 533 nm (conjugated)

发射极大值, 纳米: Non-detectable (free); 627 nm (conjugated)

Chromeo™ 是 Active Motif Chromeon GmbH 的商标。