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BDPep 630/650 NHS ester

http://hk.lumiprobe.com/p/bdp-630-650-spps-nhs-ester

BDPep 630/650 NHS ester (Dicyano BDP 630/650 NHS ester) is a versatile fluorescent dye with a range of applications in biological and chemical research. The dye is ideal for high-resolution imaging of cellular structures and dynamic processes, providing bright and distinct signals that enhance visualization. Its strong fluorescence allows for effective cell sorting and phenotyping, making it useful in various immunological and cellular studies.

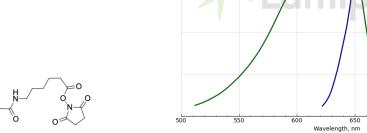
Its remarkable stability in strong acidic TFA media makes it particularly suitable for solid-phase peptide synthesis (SPPS).

Dicyano BDP 630/650 is employed in Förster Resonance Energy Transfer (FRET) assays to investigate molecular interactions and dynamics with high sensitivity. Due to its long excited-state lifetime, this dye is beneficial for detecting binding interactions between molecules, making it valuable in drug discovery and biochemical assays.

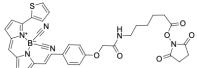
The NHS ester form enables efficient labeling of proteins and other biomolecules, that contain a functional amino group. Presence of the C6 spacer allows for more flexibility in conjugation reactions with various biomolecules, making it easier to label proteins and peptides without compromising the dye's fluorescent properties, particularly C6 spacer reduces negative quenching effects.

The dye is typically dissolved in high-quality anhydrous organic solvents such as dimethylformamide (DMF) and dimethylsulfoxide (DMSO), which facilitate its use in conjugation reactions and other applications. Dicyano BDP 630/650 exhibits hydrophobic characteristics, making it less suitable for direct use in aqueous environments compared to more water-soluble dyes like AF 647 NHS ester. Once conjugated to biomolecules, the resulting dicyano BDP 630/650 conjugates can be used in aqueous applications such as fluorescence microscopy and flow cytometry, where they provide reliable fluorescent signals.

BDP 630/650 is characterized by excellent photostability, allowing for prolonged imaging sessions without substantial loss of signal, making it suitable for applications that require extended observation periods.



Emission



外观: 深紫色粉末 分子量: 674.53 分子式: C₃₅H₃₁BN₆O₆S

溶解度: 良好的 DMF、DMSO、二氯甲烷性能

质量控制: NMR ¹H 和 HPLC-MS (95+%)

储存条件: 收到後 -20°C 避光保存 12 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: 637 ε, 摩尔吸光系数, cm⁻¹: 84000 发射极大值, 纳米: 663 荧光量子产率: 0.44 CF₂₆₀: 0.17

CF₂₈₀: 0.18