

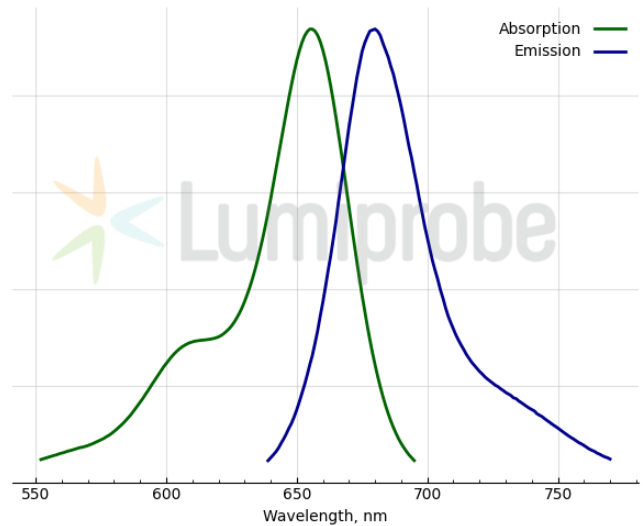
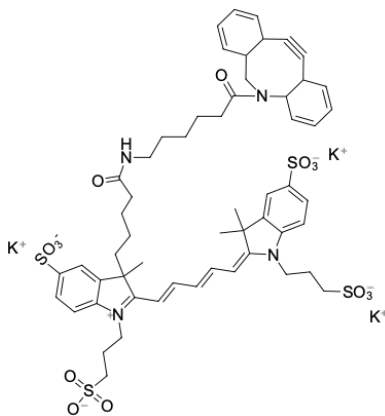
AF 647 DBCO

<http://hk.lumiprobe.com/p/af-647-dbc0>

Dibenzocyclooctyne (DBCO, DBCO, ADIBO) is one of the most reactive cycloalkynes for copper-free click reaction (SPAAC, strain-promoted azide-alkyne cycloaddition). The rate of interaction of DBCO with azides is significantly higher than that of other cyclooctynes, as well as Cu-catalyzed click reaction (CuAAC). Unlike other cyclooctynes, DBCO does not interact with [tetrazines](#), which makes it possible to use it in bioorthogonal reactions together with trans-cyclooctenes and tetrazines.

AF 647 is a bright, far-red-emitting fluorescent dye with high fluorescence quantum yield and photostability. AF 647 is a water-soluble, pH-insensitive dye. The spectrum of AF 647 is far from the green-yellow wavelengths, which makes this fluorophore indispensable for the microscopy of tissues with high autofluorescence.

AF 647 DBCO allows fluorescent labeling of azide-containing biomolecules inside living cells, whole organisms, and inanimate samples.



外观:	深藍色粉末
分子量:	1266.74
分子式:	$C_{56}H_{68}K_3N_4O_{14}S_4$
溶解度:	水、DMSO、DMF、甲醇
质量控制:	NMR 1H 和 HPLC-MS (95+%)
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: 655

ϵ , 摩尔吸光系数, cm^{-1} : 191800

发射极大值, 纳米: 680

荧光量子产率: 0.15

CF_{260} : 0.09

CF_{280} : 0.08