

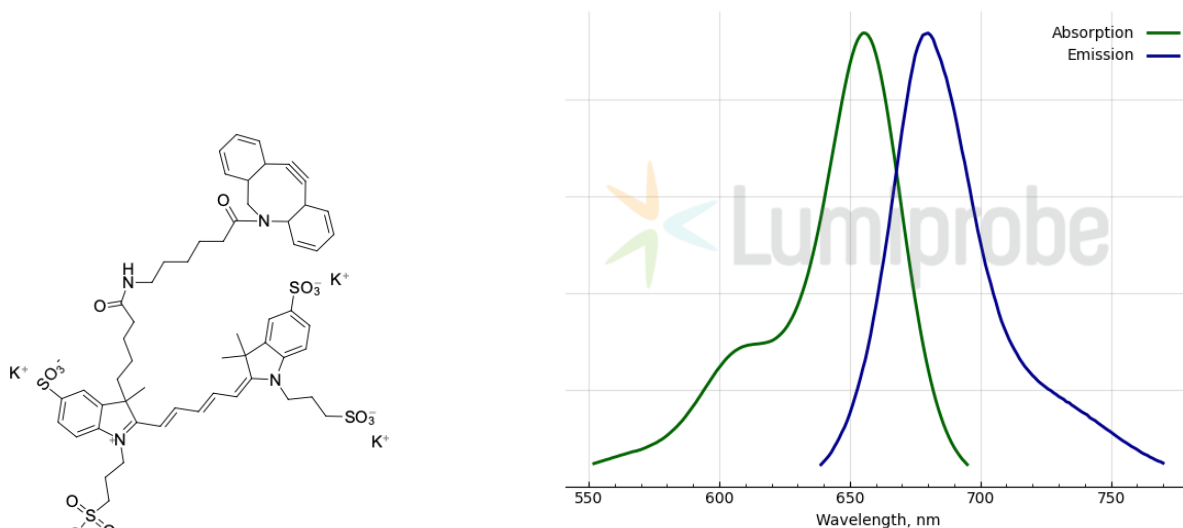
AF 647 DBCO

<http://cn.lumiprobe.com/p/af-647-dbc>

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: 深蓝色粉末

分子 1266.74

量:

分子式: $C_{56}H_{68}K_3N_4O_{14}S_4$

式:

溶解 水、DMSO、DMF、甲醇

度:

质量 NMR 1H 和 HPLC-MS (95+%)

控制:

储存 收到后在 $-20^\circ C$ 黑暗条件下可保存 24 个月。运输: 室温下最多可保存 3 周。干燥。

条件:

法律 本产品仅供研究目的提供和销售。本产品并未经过食品、药品、医疗器械、化妆品等领域的安全性和效力测试, 且未经明示或暗示授权用于其他任何用途, 包括但不限于体外诊断、人类或动物用途, 以及商业用途。

激发/ 655

吸收

极大

值,

纳米:

ϵ , 摩 191800

尔吸

光系

数 m

发射 680

极大

值,

纳米:

荧光 0.15

量子

产率:

CF_{260} : 0.09

CF_{280} : 0.08