16851 Atto 665

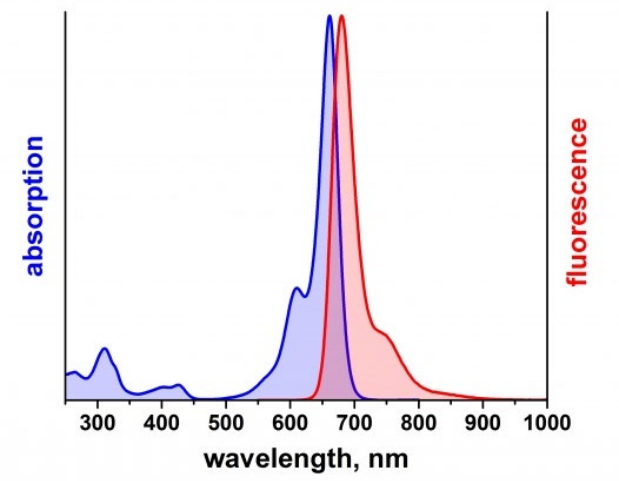
Application

Atto 665 is a new fluorescent label related to Atto 647N. Characteristic features of the label are strong absorption, extraordinarily high fluorescence quantum yield, high thermal and photo-stability, and exceptionally high stability towards atmospheric ozone. In common with most Atto-labels, absorption and fluorescence are independent of pH, at least in the range of pH 2 to 11, used in typical applications. Atto 665 is a cationic dye. After coupling to a substrate the dye carries a net electrical charge of $^{+1}$.
The dye is moderately hydrophilic. The fluorescence is excited most efficiently in the range 640 - 675 nm. A suitable excitation source is the 647 nm line of the Krypton-Ion laser or a diode-laser emitting at 650 nm.

Product Description

MW	723 g/mol
λ_{abs}	662 nm
ε_{max}	1.60 x 10^5 M^{-1} cm^{-1}
λ_{fl}	680 nm
η_{fl}	60 %
τ_{fl}	2.9 ns
CF_{260}	0.07
CF_{280}	0.06

Optical data of the carboxy derivative (in aqueous solution)



Storage: Store at –20°C and protected from light.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.