

01632 Atto 520 biotin

Application

Atto 520 is a new label with high molecular absorption (110.000) and quantum yield (0.90) as well as sufficient stoke's shift (excitation maximum 520 nm, emission maximum 542 nm). It does nearly not show cis-trans-isomerisation, which limits brightness and reproducibility for many other dyes. Due to an insignificant triplet formation rate it is well suited for single molecule detection applications.

Biotin conjugates can be used in applications like ELISA or immuno-histochemistry, in situ hybridization, flow cytometry and others, to identify streptavidin, avidin, or extravidin-conjugates.

Product Description

Net formula	$C_{37}H_{53}ClN_6O_8S$
MW	777.37
ϵ	$110.000 \text{ M}^{-1}\text{cm}^{-1}$
η_{fl}	90% (in water), 95% (in ethanol)
τ	3.6 ns (in water), 3.7 (in ethanol)
Solubility	soluble in DMF, ethanol, methanol
Quantity	1 mg

Absorption and fluorescence emission of Atto 520 in water of pH 7.0

