

43292 Atto 610-Biotin

Application

Atto 610 belongs to a new generation of fluorescent labels for the red spectral region. Characteristic features of the label are strong absorption, high fluorescence quantum yield, high thermal and photostability, and only little triplet formation. The dye is very stable under physiological pH-values and in buffers up to pH 8.5. However, it slowly degrades at higher pH. Atto 610-Biotin is supplied as solvent-free perchlorate salts.

Biotin conjugates are interesting for bioassays because the high affinity of streptavidin and avidin. They are useful for detection reagents in microscopy, flow cytometry, immunoassays, blot analysis and nucleic acid hybridization methods.

Product Description

Formula	C ₄₀ H ₅₇ ClN ₆ O ₇ S
Appearance	violet solid
MW	801.43 g/mol
ε	150.000 / mol ⁻¹ cm ⁻¹
η _D	70% (in water)
τ	3.3 ns (in water)
Abs. max.:	615nm(0.1 M phosphate pH 7.0), 615nm(H ₂ O)
Em. max.:	634nm(0.1 M phosphate pH 7.0), 634nm(H ₂ O)
Quantity	1 mg

Atto 610 Spectra (in water)

