50842 Atto 740-Biotin

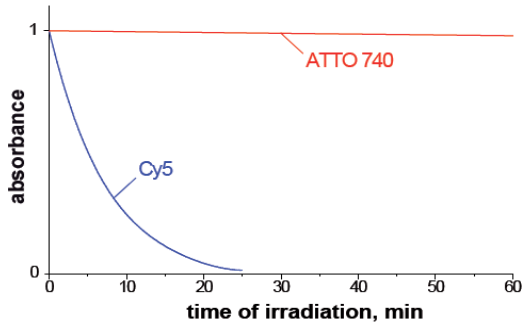
Application

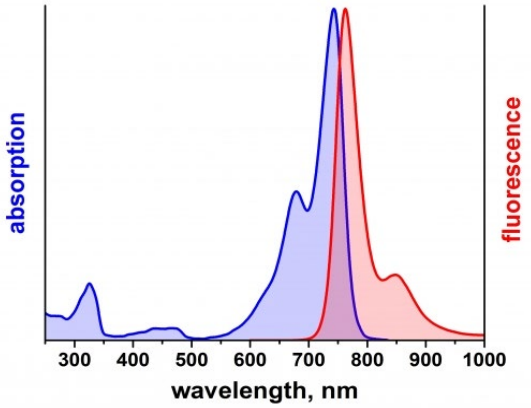
Atto 740 belongs to a new generation of fluorescent labels for the near infrared spectral region. The dye is designed for application in the area of life science, e.g. labeling of DNA, RNA or proteins. Characteristic features of the dye are strong absorption and good fluorescence as well as excellent thermal and photo-stability. Atto 740 is a cationic dye. After coupling to a substrate the dye carries a net electrical charge of $^{+1}$.
Atto 740 is a pH sensitive product. While practically stable up to pH 7.4 (PBS-buffer), it slowly degrades at higher pH. If exposed to higher pH for coupling purposes, we recommend reducing the pH immediately after completion of the reaction.
Biotin conjugates can be used in applications like ELISA or immunohistochemistry, in situ-hybridization, flow cytometry and others, to identify streptavidin, avidin or extravidin-conjugates.

Product Description

MW	879 g/mol
λ_{abs}	743 nm
ε_{max}	1.2 x 10^5 M^{-1} cm^{-1}
λ_{fl}	763 nm
η_{fl}	10 %
τ_{fl}	0.6 ns
CF_{260}	0.07
CF_{280}	0.07

Optical data of the carboxy derivative (in aqueous solution)





Storage: protected from moisture and light at -20°C

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.