09260 Atto 425 Streptavidin

Application
Atto 425 is a new label with high quantum yield (0.90) as well as sufficient stoke's shift (excitation maximum 436 nm, emission maximum 484 nm). It is optimised for excitation with argon laser, and is characterized by high photo stability. It does nearly not show cis-trans-isomerisation, which limits brightness and reproducibility for many other dyes. Atto 425 has been coupled to streptavidin in order to enable all kinds of assays based on the specific affinity of biotin to streptavidin.

Product Description
General:

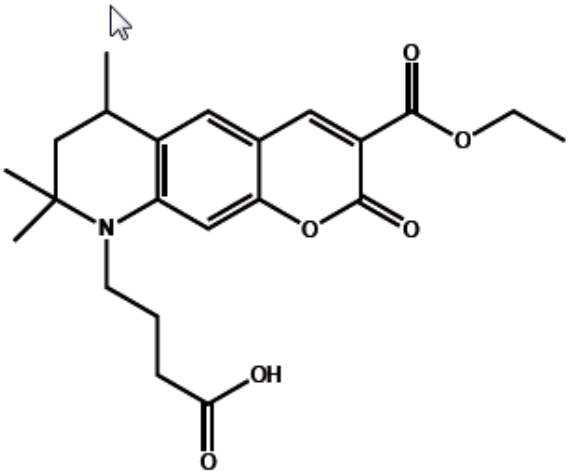
Label:

MW	401 g/mol (free acid)
λ_{abs}	439 nm
ε_{max}	4.5 x 10^4 M^{-1} cm^{-1}
λ_{fl}	485 nm
η_{fl}	90 %
τ_{fl}	3.6 ns
CF_{260}	0.19
CF_{280}	0.17

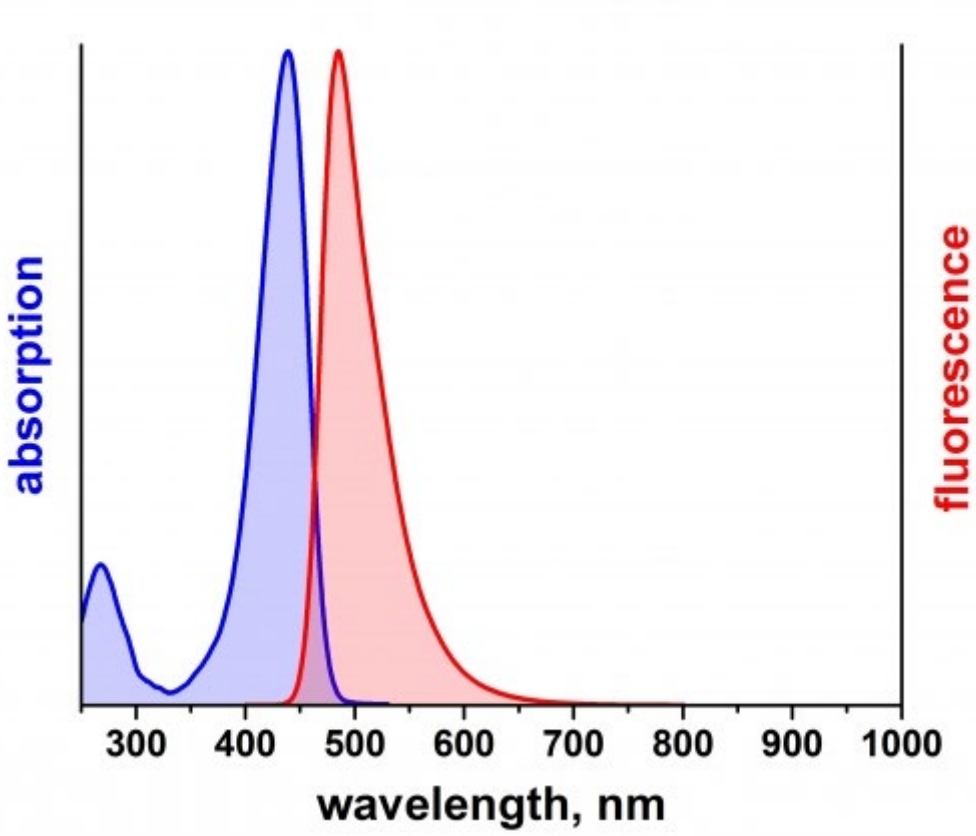
Streptavidin:

MW	53.000 g / Mol
Source	Streptomyces avidinii
Activity	13 units / mg protein

Atto 425-Streptavidin:
Dye content 2-3 mol/ mol Streptavidin



Optical data of the carboxy derivative (in water)



Streptavidin conjugation of Atto 425 does not change significantly the labels spectral data regarding excitation and emission maxima.

Storage of dissolved conjugates
Cooler; dark
In general, conjugates should be stored under the same conditions used for the unlabeled protein. For storage in solution at 4°C, 2 mM sodium azide can be added as a preservative. Typically, protein conjugates will be stable for several months. For long-term storage, aliquots may be frozen at –20°C to avoid repeated freezing and thawing. Protect from light. If your protein tends to unstability please use one of our BioStab solutions specially designed for stabilization of proteins.

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.