

78948 Atto 425 azide

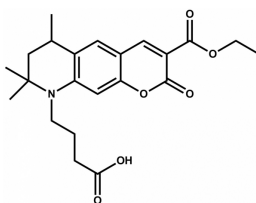
Application

Atto 425 is a novel fluorescent label with a coumarin structure. The dye is intended for application in the area of life science, e.g. labeling of DNA, RNA or proteins. Characteristic features of the label are strong absorption, high fluorescence quantum yield, large Stokes-shift, good photostability, and low molecular weight.

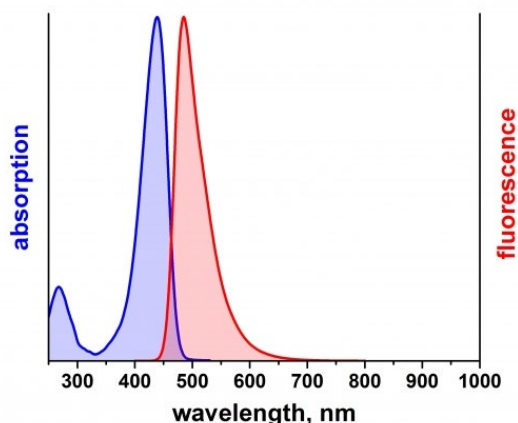
The **azide** modification is suitable for reactions with alkyne groups (Huisgen reaction - "Click Chemistry").

Product Description

MW	602 g/mol
λ_{abs}	439 nm
ϵ_{max}	$4.5 \times 10^4 \text{ M}^{-1} \text{ cm}^{-1}$
λ_{fl}	485 nm
η_{fl}	90 %
τ_{fl}	3.6 ns
CF ₂₆₀	0.19
CF ₂₈₀	0.17



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.

The vibrant M and Sigma-Aldrich are trademarks of Merck KGaA, Darmstadt, Germany or its affiliates.

Detailed information on trademarks is available via publicly accessible resources.

© 2018 Merck KGaA, Darmstadt, Germany and/or its affiliates. All Rights Reserved.

The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada.

