# 61911 Atto 520 azide

## Application

Atto 520 is a novel fluorescent label related to the well-known dye Rhodamine 6G. 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, high thermal and photo-stability, and very little triplet formation. At pH > 7 Atto 520 shows reversible formation of a colorless pseudobase.
The **azide** modification is suitable for reactions with alkyne groups (Huisgen reaction - "Click Chemistry").

## Product Description

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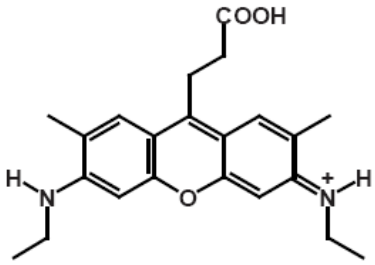
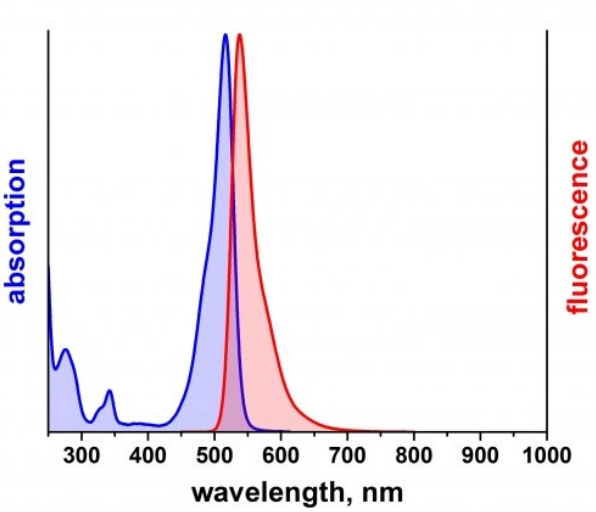
|---|---|
| MW | 681 g/mol |
| $\lambda_{abs}$ | 583 nm |
| $\varepsilon_{max}$ | 1.1 x $10^5$ $M^{-1}$ $cm^{-1}$ |
| $\lambda_{fl}$ | 538 nm |
| $\eta_{fl}$ | 90 % |
| $\tau_{fl}$ | 3.7 ns |
| $CF_{260}$ | 0.16 |
| $CF_{280}$ | 0.20 |

**Optical data of the carboxy derivative (in aqueous solution)**




**Storage:** store at ≤ -20°C. Protect from long-term exposure to moisture and light.

## 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.