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# **Product Information**

## 95349 Atto 647N amine

### **Application**

Atto 647N belongs to a new generation of fluorescent labels for the red 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 label are strong absorption, excellent fluorescence quantum yield, high photostability, excellent ozone resistance, good solubility, and very little triplet formation. Atto 647N is a cationic dye. After coupling to a substrate the dye carries a net electrical charge of +1.

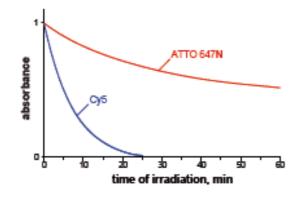
In common with most Atto-labels, absorption and fluorescence are independent of pH in the range of 2 to 11, used in typical applications. As supplied Atto 647N consists of a mixture of two isomers with practically identical absorption and fluorescence properties.

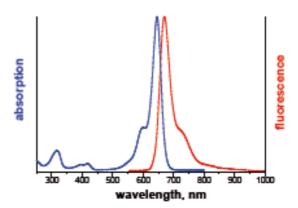
The amine derivative may be used for reactions with activated carboxy-groups like NHS-esters, TFP-esters etc.

#### **Product Description**

MW	843 g/mol
$\lambda_{\text{abs}}$	644 nm
$\epsilon_{\text{max}}$	1.5 x 10 <sup>5</sup> M <sup>-1</sup> cm <sup>-</sup>
$\lambda_{\text{fl}}$	669 nm
ηfl	65 %
$ au_{fl}$	3.5 ns
CF <sub>260</sub>	0.06
CF <sub>280</sub>	0.05

### Optical data of the carboxy derivative (in water)





Storage: Store at -20 °C and protected from 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.

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