

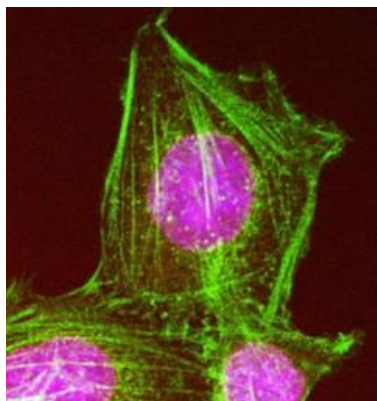
### SUMMARY

shipped at RT;

For research use only

**Absorption / emission max.:**  
500 nm / 630 nm(in Ethanol)

**Molar absorbance:**  
50.000 M<sup>-1</sup>cm<sup>-1</sup>



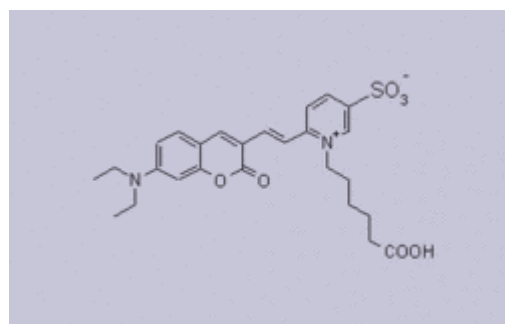
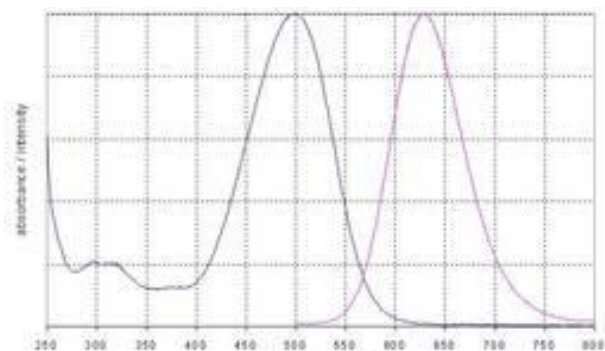
### Comments:

- Soluble in methanol, DMF, DMSO
- Suitable for protein labeling, microarray experiments, FisH microscopy, gel electrophoresis
- Exceptional Stokes-Shift

### Available Modifications

Available Modifications	Molecular Weight (g • mol <sup>-1</sup> )	Molecular formula
Carboxylic acid	514.60	C <sub>26</sub> H <sub>30</sub> N <sub>2</sub> O <sub>7</sub> S
NHS-ester	611.68	C <sub>30</sub> H <sub>33</sub> N <sub>3</sub> O <sub>9</sub> S
Amino-derivative	593.14	C <sub>28</sub> H <sub>37</sub> N <sub>4</sub> O <sub>6</sub> SCI
Maleimide	636.73	C <sub>32</sub> H <sub>36</sub> N <sub>4</sub> O <sub>8</sub> S
STP-Ester	764.71	C <sub>32</sub> H <sub>29</sub> F <sub>4</sub> N <sub>2</sub> O <sub>10</sub> S <sub>2</sub> * Na
dUTP	1043.54	C <sub>38</sub> H <sub>44</sub> N <sub>5</sub> O <sub>20</sub> P <sub>3</sub> S * 4Li

### Diagram, Formel



### Literature

Nizamov S., Willig K. I., Sednev M. V., Belov V. N., Hell S. W., Phosphorylated 3-Heteroarylcoumarins and Their Use in Fluorescence Microscopy and Nanoscopy, *Chemistry - A European Journal*, 51(2012)16339–16348

Pellett P. A., Sun X., Gould T. J., Rothman J. E., Xu M.-Q., Corrêa I. R. Jr., Bewersdorf J., Two-color STED microscopy in living cells, *BIOMEDICAL OPTICS EXPRESS*, 8(2011)2364-2371.

Hua Y., Sinha R., Thiel C. S., Schmidt R., Hüve J., Martens H., Hell S. W., Egner A., Klingauf J., A readily retrievable pool of synaptic vesicles, *Nature Neuroscience* (2011), DOI : 10.1038/nn.2838.

### Order Information, Shipping and Storage

Order#	Product	Quantity
MFP-D480XL-00-1	MFP™-DY-480XL-Carboxylic Acid	1 mg
shipped at RT; store at RT		
MFP-D480XL-01-1	MFP™-DY-480XL-NHS-Ester	1 mg
shipped at RT; store at 4 °C		
MFP-D480XL-02	MFP™-DY-480XL-Amino function	1 mg
MFP-D480XL-03-2	MFP™-DY-480XL-Maleimide	1 mg
shipped at RT; store at RT		
MFP-D480XL-05	MFP™-DY-480XL-STP-Ester	1 mg
shipped at RT; store at 4 °C		
MFP-D480XL-30-2	MFP™-DY-480XL-Biotin	1 mg
shipped at RT; store at RT		
MFP-D480XL-33	MFP™-DY-480XL-Phalloidin	300 units
shipped at RT; store at 4 °C		
MFP-D480XL-34	MFP™-DY-480XL-dUTP	100 nmol
shipped on blue ice; store at -20 °C		
MFP-D480XL-10	MFP™-DY-480XL-Azide	1 mg

### Contact and Support

MoBiTec GmbH ● Lotzestrasse 22a ● D-37083 Goettingen ● Germany

#### Customer Service – General inquiries & orders

phone: +49 (0)551 707 22 0  
fax: +49 (0)551 707 22 22  
e-mail: [order@mobitec.com](mailto:order@mobitec.com)

#### Technical Service – Product information

phone: +49 (0)551 707 22 70  
fax: +49 (0)551 707 22 77  
e-mail: [info@mobitec.com](mailto:info@mobitec.com)

**MoBiTec in your area:** Find your local distributor at [www.mobitec.com](http://www.mobitec.com)