

### SUMMARY

shipped at RT

For research use only

#### Absorption / emission max.:

645 nm / 671 nm (in Ethanol)

#### Molar absorbance:

200.000 M<sup>-1</sup>cm<sup>-1</sup>

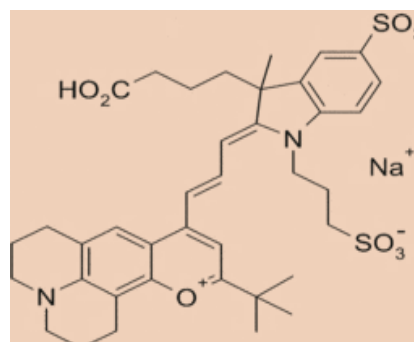
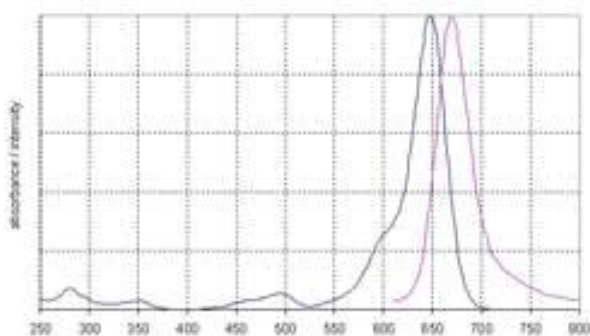
#### Comments:

- Soluble in water, methanol, DMF, DMSO
- Bright solid state emission
- Suitable for protein labeling, microarray experiments, FisH microscopy, gel electrophoresis
- Negatively charged
- Improved water solubility

#### Available Modifications

Available Modifications	Molecular Weight (g • mol <sup>-1</sup> )	Molecular formula
Carboxylic acid	760.91	C <sub>38</sub> H <sub>45</sub> N <sub>2</sub> O <sub>9</sub> S <sub>2</sub> Na
NHS-ester	857.98	C <sub>42</sub> H <sub>48</sub> N <sub>3</sub> O <sub>11</sub> S <sub>2</sub> Na
Amino-derivative	781.01	C <sub>40</sub> H <sub>52</sub> N <sub>4</sub> O <sub>8</sub> S <sub>2</sub>
Maleimide	883.04	C <sub>44</sub> H <sub>51</sub> N <sub>4</sub> O <sub>10</sub> S <sub>2</sub> Na
Phalloidin	1530.79	C <sub>73</sub> H <sub>92</sub> N <sub>11</sub> O <sub>18</sub> S <sub>3</sub> Na
dUTP	1386.96	C <sub>56</sub> H <sub>70</sub> N <sub>6</sub> O <sub>23</sub> P <sub>3</sub> S <sub>2</sub> * 5Li

#### Diagram, Formel



### Literature

Marme N., Friedrich A., Denapaité D., Hakenbeck R., Knemeyer J.-P., Single nucleotide polymorphism analysis using different colored dye dimer probes, *Physics Letters* 428 (2006) 440–445.

Maffre P., Nienhaus K., Amin F., Parak W. J., Nienhaus G. U., Characterization of protein adsorption onto FePt nanoparticles using dual-focus fluorescence correlation spectroscopy, *Beilstein J. Nanotechnol.* 2(2011)374–383.

Volcke C., Gandhiraman R. P., Basabe-Desmóns L., Iacono M., Gubala V., Cecchet F., Cafolla A. A., Williams D. E., Protein pattern transfer for biosensor applications, *Biosensors and Bioelectronics* 25(2010)1295–1300.

Jiang X., Weise S., Hafner M., Röcker C., Zhang F., Parak W. J., Nienhaus G. U., Quantitative analysis of the protein corona on FePt nanoparticles formed by transferrin binding, *J. R. Soc. Interface*, 7(2010)5-13.

Treuel L.1, Jiang X., Nienhaus G. U., New views on cellular uptake and trafficking of manufactured nanoparticles, *J R Soc Interface*, 10(2013) 20120939.

Marmé N., Knemeyer J. P., REVIEW Sensitive bioanalysis—combining single-molecule spectroscopy with mono-labeled self-quenching probes, *Anal Bioanal Chem* 388(2007)1075–1085.

Mahmoudi M., Abdelmonem A. M., Behzadi S., Clement J. H., Dutz S., Ejtehadi M. R., Hartmann R., Kantner K., Linne U., Maffre P., Metzler S., Moghadam M. K., Pfeiffer C., Rezaei M., Ruiz-Lozano P., Serpooshan V., Shokrgozar M. A., Nienhaus G. U., Parak W. J., Temperature - The “Ignored” Factor at the NanoBio Interface, *ACS Nano*, DOI: 10.1021/nn305337c.

Padirac A., Fujii T., Rondelez Y., Quencher-free multiplexed monitoring of DNA reaction circuits, *Nucl. Acids Res.* 40(2012): e118.

## Order Information, Shipping and Storage

Order#	Product	Quantity
MFP-D636-00-1	MFP™-DY-636-Carboxylic Acid	1 mg
shipped at RT; store at RT		
MFP-D636-01-1	MFP™-DY-636-NHS-Ester	1 mg
shipped at RT; store at 4 °C		
MFP-D636-02	MFP™-DY-636-Amino function	1 mg
MFP-D636-03-2	MFP™-DY-636-Maleimide	1 mg
MFP-D636-30-2	MFP™-DY-636-Biotin	1 mg
shipped at RT; store at RT		
MFP-D636-33	MFP™-DY-636-Phalloidin	300 units
shipped at RT; store at 4 °C		
MFP-D636-34	MFP™-DY-636-dUTP	100 nmol
shipped on blue ice; store at -20 °C		
MFP-D636-10	MFP™-DY-636-Azide	1 mg

## Contact and Support

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