

# Oyster<sup>®</sup> - 645

Product Information Sheet  
Revised: June 2009



## Characteristic data

Molecular weight  $M_r = \sim 1600$  (carboxylic acid)  
Extinction coefficient  $\epsilon = 240.000 \text{ cm}^{-1} \times M^{-1}$

## Excitation/Emission

	buffer (PBS)	conjugate
$\lambda_{\text{abs}}$	645 nm	650 nm
$\lambda_{\text{em}}$	666 nm	670 nm

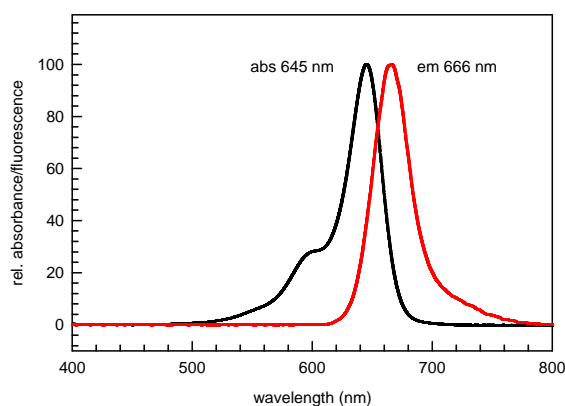
## Structure

Oyster 645 is a fluorescent dye based on pentamethine cyanines.  
Upon binding the dye is negatively charged

## Comments

- Bifunctional dye, i.e. two reactive groups per dye
- Excellent labelling efficiency
- Suitable for fluorescence microscopy, flow cytometry, microarray applications, ELISA, FisH, Western blotting, etc.
- Replaces Cy5<sup>®</sup>, bifunctional

## Spectra



spectra of the free dye taken in phosphate buffered saline (PBS), pH 7.4

## The bi-functional dye is available as

Modification	Unit	Product Code
succinimidylester (NHS)	1 vial* (50 $\mu\text{g}$ )	OY-645-N-1vi
	1 pack (5 x 50 $\mu\text{g}$ )	OY-645-N-1mg
	1 mg	OY-645-N-1mg
	5 mg	OY-645-N-5mg

\* contains a sufficient amount of dye to label up to 1 mg protein or 20 nmol amino containing material.

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Cy5<sup>®</sup> is a trademark GE Healthcare, Alexa Fluor<sup>®</sup> is a trademark of Molecular Probes Inc., Dylight<sup>®</sup> is a trademark of Thermo Fisher Scientific Inc.

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