

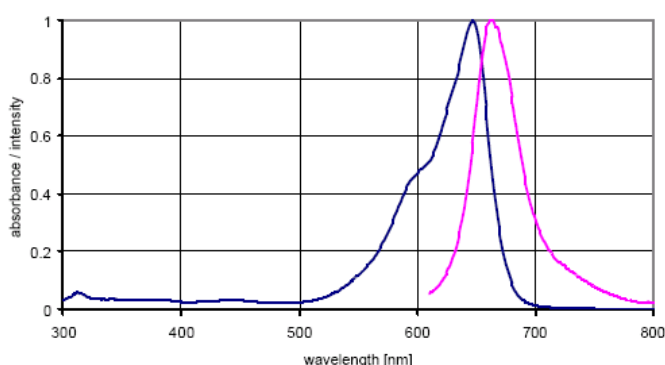
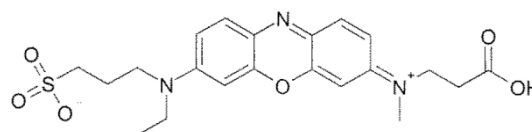
## 49328 EVOblue 30

### Application

EVOblue reactive is a new, red-laser compatible label, thus achieving low background of fluorescence in biological samples. It is highly water soluble, solvent and pH (1-10) stable with and shows a strong fluorescence. Small size and good photo stability are further advantages of this dye.

### Product Description

CAS # 343257-52-3  
Net formula  $C_{21}H_{25}N_3O_6S$   
MW 447.50  
 $\epsilon$  100.000 L  $M^{-1}cm^{-1}$   
Appearance purple powder, clear blue solution (1 mg / 1mL DMF)  
Solubility soluble in water, DMF, DMSO, methanol  
Coupling rate >90%  
Quantity 1mg  
Absorption and fluorescence emission of EVOblue 30



In ethanol abs.  $\lambda_{max}$  647 nm, fluoresc.  $\lambda_{max}$  664 nm in 0.1 M phosphate buffer pH 7.0  $E_{max}$  666nm  
Exc. 635nm

### Storage

Store in refrigerator (4°C) or, even better in freezer (-20°C). Keep under argon or nitrogen. Protect from light, especially in solution. Stock solutions should be stored at - 20°C and stock solutions with pH < 9 should be used within 1 month.

### Usage

To prepare a stock solution of the label, dissolve 5 mg of EVOblue 30 in 400  $\mu$ l water (final concentration 25 nmol/ $\mu$ l).

EVOblue® 30 is a fluorescent dye for covalently labeling a wide range of biological molecules. The lower excitation energy needed for EVOblue 30 causes less photodestruction and exceeds the lifetime of the fluorescent signal compared to common dyes. EVOblue 30 is optimized for an excitation at 635 nm and an emission around 670 nm - both allowing the use of common laser and filter sets. In contrast to commercially available red excitable dyes, EVOblue 30 reveals a high chemical stability and suitability for high performance fluorescence applications.

### 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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