

Alkene coupling hydrogel fluorescent dyes

Product component

Item	Character	Package Size	Notes
EFL-DYE-UF-ENE	Solid	100mg/bottle	Keep in dark

This instruction applies to EFL-DYE-UF-ENE

Product fluorescence information

Item	Excitation wavelengths	Emission wavelengths	Fluorescence color
EFL-DYE-UF-ENE-R	552nm	618nm	Red
EFL-DYE-UF-ENE-G	492nm	568nm	Green
EFL-DYE-UF-ENE-B	429nm	495nm	Blue

Product introduction

EFL-DYE-UF-ENE series alkene coupling hydrogel fluorescent dyes are macromolecular monomers grafted with double bonds and specific fluorescent molecules. After mixing with hydrogel precursors, they are coupled with gel polymer networks through free radical polymerization during photocuring to achieve stable fluorescence labeling. This series of hydrogel fluorescent dyes are suitable for the fluorescent labeling of free radical polymerization-cured hydrogels. They have good biocompatibility and overcome the shortcomings of physical mixing or electrostatic adsorption methods in which fluorescent molecules are easy to diffuse out of the system. At the same time, they also avoid the shortcomings of uneven imaging of fluorescent particles.

Product application

Fluorescence labeling of GelMA, HAMA, SilMA, AlgMA, DexMA and other photocuring hydrogel products; in vivo and in vitro imaging, tracing, material degradation, biosensing, 3D printing, tissue engineering, etc.



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Storage

Dry kit: room temperature, 3 months; 4°C, 12 months; -20°C, 18 months.

Sterile solution : 4°C (in dark), 7 days ; -20°C (in dark), 6 months. Repeated freezing and thawing of the solution will affect the performance of the product, as far as possible. **It is best to prepare it when using it.**

Period of validity

The date of manufacture is shown in the package.

Suggestions

The product is added to the photo-curable hydrogel precursor solution such as GelMA, HAMA, SilMA, etc., and the hydrogel curing operation can be performed after full dissolution by stirring/oscillation at 40-50°C (**non-sterile product**, if it is used for biological experiments, filter sterilization).

The recommended concentration is 2-8mg/mL, and the concentration is adjusted according to the final fluorescence intensity.



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