

Cy5 biotin conjugate

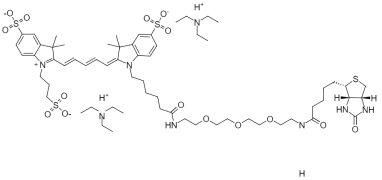
Catalog number: 3100

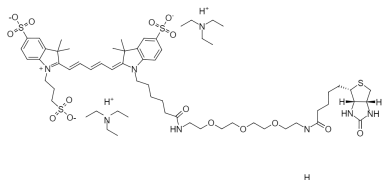
Unit size: 5 mg

Product Details

Storage Conditions	Freeze (<-15 °C)
Expiration Date	12 months upon receiving

Chemical Properties

Appearance	Blue solid
Molecular Weight	1353.82
Soluble In	Water
Chemical Structure	



Spectral Properties

Excitation Wavelength	651 nm
Emission Wavelength	670 nm

Applications

This bifunctional Cy5 biotin conjugate demonstrates excellent avidin binding and strong fluorescence. It has avidin-binding properties similar to native biotin in terms of high affinity, fast association, and non-cooperative binding to avidin and streptavidin tetramers. Cy5 Biotin can be used for detecting and quantifying biotin binding sites of avidin, streptavidin or neutravidin. This reagent overcomes major shortcomings of commonly used Biotin-4-fluorescein, e.g., poor solubility in aqueous media and pH dependent absorbance and emission. Cy5 Biotin is a water-soluble reagent and its red fluorescence is pH independent from pH 4 to pH 10. A flexible PEG spacer between biotin moiety and fluorescent tag minimize steric hindrance involved in binding to avidin, streptavidin or neutravidin.