

## Acridinium Biotin Conjugate

Catalog Number: 26050

Unit Size: 1 mg

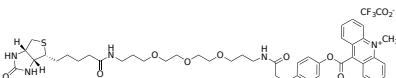
### Product Details

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

### Chemical Properties

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Appearance	Solid off- white
Molecular Weight	928.03
Soluble In	DMSO
Chemical Structure	 The chemical structure shows a biotin molecule linked to an acridinium ester. The biotin part consists of a thiazolidine ring system with a propionic acid side chain. The acridinium ester part is attached via a linker, featuring an acridine ring system with a trifluoroacetoxy group (CF <sub>3</sub> CO <sub>2</sub> <sup>-</sup> ) at the 9-position.

### Spectral Properties

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Excitation Wavelength	N/A
Emission Wavelength	N/A

### Applications

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Acridinium biotin is a conjugate of acridinium ester and biotin. It is a chemiluminescent label that can be used to detect antibodies or antigens in a wide range of immunoassays. For example, it may be used to label antibodies or antigens that can be detected by streptavidin-coated magnetic beads in a chemiluminescent immunoassay system. Since biotin is a small molecule that can bind to streptavidin with high affinity and specificity, the acridinium biotin reagent can be used in a variety of immunological applications in combination of numerous commercially available streptavidin conjugates.