

Product information: SiR-BCN (SC017)

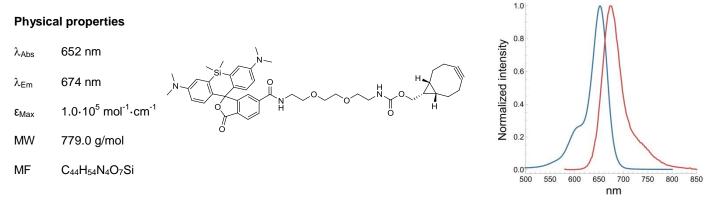
Clickable SiR derivative for custom conjugate synthesis.

Introduction

SiR-BCN is a bicyclo[6.1.0]nonyne (BCN) derivative of the fluorophore silicon rhodamine (SiR)¹⁾. Sir-BCN reacts with tetrazine and azide derivatives to form a covalent linkage. Small molecules, peptides, oligo-nucleotides or proteins bearing the appropriate tetrazine or azide can be conjugated to SiR-BCN. The key features of SiR-BCN are i) far-red absorption and emission wavelengths, ii) high extinction coefficient, iii) high photostability, iv) compatibility with superresolution microscopy (STED & SIM). The combination of those properties put SiR-BCN at the leading edge of excellence.

Storage & Handling

Store the compound below -20°C upon receipt. Prepare solutions of the compound using anhydrous DMSO. Keep solutions of the compound below -20°C after use. Vials should be allowed to warm to room temperature before opening. When stored properly, the compound should be stable for several months. Note: DMSO solutions should be handled with particular caution as DMSO is known to facilitate the entry of organic molecules into tissues. Dispose of these reagents in compliance with all pertaining local regulations.



References:

1. A near-infrared fluorophore for live-cell super-resolution microscopy of cellular proteins G. Lukinavičius et al., *Nature Chemistry*, 5, 132–139 (2013).

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