

## SiR-Hoechst

## Chemical Properties

CAS No. :

Formula: C<sub>56</sub>H<sub>59</sub>N<sub>9</sub>O<sub>4</sub>Si

Molecular Weight:

Keep away from direct sunlight

Storage:

Store at -20°C

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	SiR-Hoechst is a far-red fluorescent DNA probe commonly utilized for live-cell time-lapse imaging. It exhibits minimal toxicity even at concentrations as high as 10-25 $\mu$ M. However, at concentrations significantly below 1 $\mu$ M, SiR-Hoechst can induce a DNA damage response and G2 arrest.
Targets(IC50)	Autophagy
In vitro	SiR-Hoechst offers several distinct advantages: it selectively binds to DNA, exhibits increased fluorescence upon DNA binding, is excited by far-red light, thereby avoiding UV damage associated with traditional Hoechst dyes, and is compatible with super-resolution microscopy of live cells.

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