

Lumiprobe Corporation

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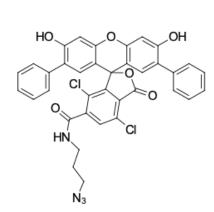
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SIMA azide, 6-isomer

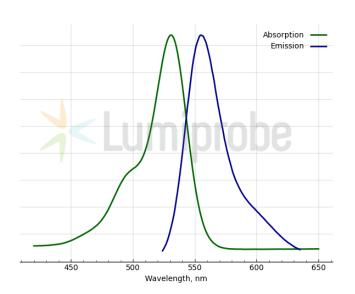
http://www.lumiprobe.com/p/sima-azide-6

SIMA (dichloro-diphenyl-fluorescein) is a dye with spectral properties similar to HEX but with a higher quantum yield.

SIMA azide is used to produce fluorescently labeled primers and hybridization probes for quantitative PCR. Oligonucleotides with a SIMA label can be easily generated via azide-alkyne cycloaddition between SIMA azide and alkyne-containing oligonucleotide.



Structure of SIMA azide, 6-isomer



Absorption and emission spectra of SIMA

General properties

Appearance: orange powder

Molecular weight: 679.52

 $\label{eq:controller} \text{Molecular formula:} \qquad \qquad C_{36} H_{24} C I_2 N_4 O_6$

Solubility: good in DMSO, DMF

Quality control: NMR ¹H and HPLC-MS (95+%)

Storage conditions: 24 months after receival at -20°C in the dark. Transportation: at room temperature

for up to 3 weeks. Desiccate. Avoid prolonged exposure to light.

Spectral properties

Excitation/absorption maximum, nm: 531 ϵ , L·mol $^{-1}$ ·cm $^{-1}$: 92300 Emission maximum, nm: 555 Fluorescence quantum yield: 0.63 CF_{260} : 0.57 CF_{280} : 0.18