

## **Lumiprobe Corporation**

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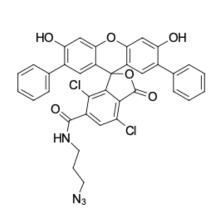
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## SIMA azide, 6-isomer

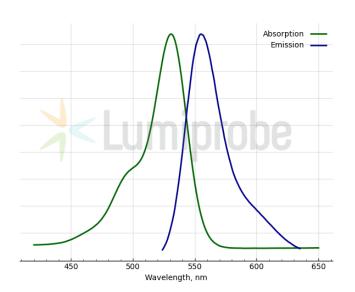
http://www.lumiprobe.com/p/sima-azide-6

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 <sup>1</sup>H 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.

Legal statement: This Product is offered and sold for research purposes only. It has not been tested for

safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food

or pharmaceutical products, in medical devices or in cosmetic products.

## **Spectral properties**

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