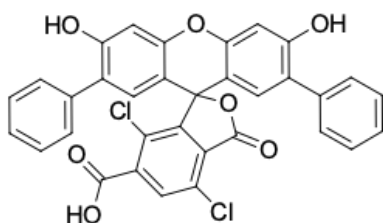


SIMA carboxylic acid, 6-isomer

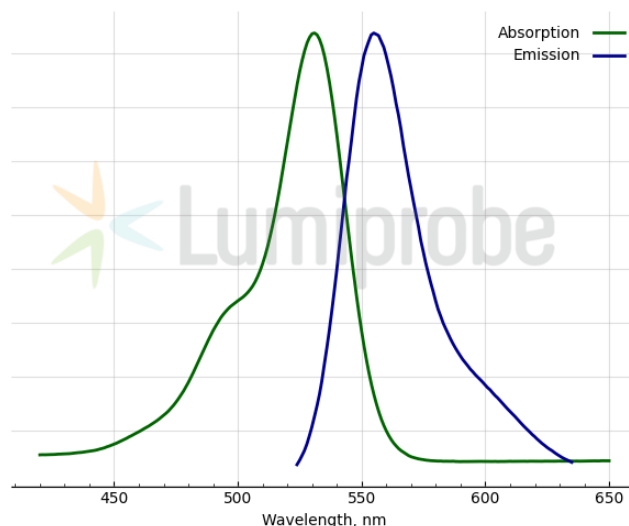
<http://www.lumiprobe.com/p/sima-carboxylic-acid-6>

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

SIMA carboxylic acid is a non-reactive form of SIMA dye that can be used as a reference standard in experiments involving SIMA dye conjugates. Besides, the carboxylic group can react with hydrazines, hydroxylamines, and amines using carbodiimides such as EDAC.



Structure of SIMA carboxylic acid, 6-isomer



Absorption and emission spectra of SIMA

General properties

Appearance:	orange powder
Molecular weight:	597.41
Molecular formula:	$C_{33}H_{18}Cl_2O_7$
Solubility:	good in DMSO, DMF, methanol, basic solutions, limited in acetonitrile
Quality control:	NMR 1H and HPLC-MS (95+%)
Storage conditions:	24 months after receipt at $-20^\circ C$ 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
ϵ , $L \cdot mol^{-1} \cdot cm^{-1}$:	92300
Emission maximum, nm:	555
Fluorescence quantum yield:	0.63
CF_{260} :	0.57
CF_{280} :	0.18