

## **Lumiprobe Corporation**

115 Airport Dr Suite 160 Westminster, Maryland 21157

USA

Phone: +1 888 973 6353 Fax: +1 888 973 6354 Email: order@lumiprobe.com

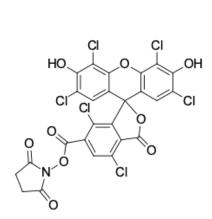
## **HEX NHS ester, 6-isomer**

http://www.lumiprobe.com/p/hex-nhs-ester-6

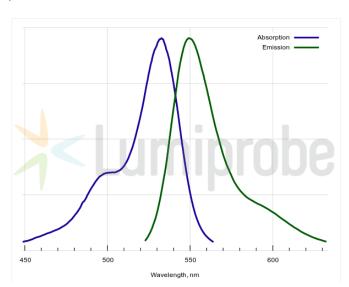
Activated NHS-ester of HEX (Hexachlorofluorescein) dye, a pure 6-isomer. This NHS ester is an amine-reactive dye for labeling of amine groups in proteins, peptides, amino-modified oligos, and other target molecules.

HEX is a hexachlorinated derivate of the fluorescent dye fluorescein. HEX exhibits an excitation peak at 533 nm and an emission peak at 549 in the green-yellow area. It can serve as a substitute for JOE, BODIPY  $^{\text{TM}}$  530/550, VIC  $^{\text{TM}}$  because of their similar spectral characteristics.

HEX NHS ester is widely used in nucleic acid sequencing, PCR/qPCR, and related research.



Structure of HEX NHS ester, 6-isomer



Absorption and emission spectra of HEX

## **General properties**

Appearance: light orange powder

Molecular weight: 680.06

CAS number: 2129651-79-0 Molecular formula:  $C_{25}H_9CI_6NO_9$ 

Solubility: very soluble in DMSO, DMF

Quality control: NMR <sup>1</sup>H and HPLC-MS (95+%)

Storage conditions: 12 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: 533  $\epsilon$ , L·mol $^{-1}$ ·cm $^{-1}$ : 87770 Emission maximum, nm: 549 Fluorescence quantum yield: 0.57  $CF_{260}$ : 0.30  $CF_{280}$ : 0.13

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