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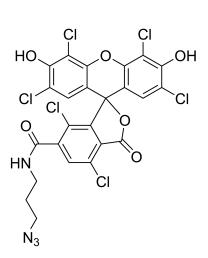
HEX azide, 6-isomer

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

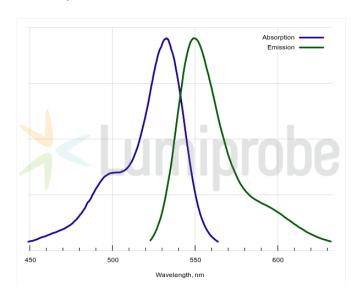
Hexachlorofluorescein (HEX) is a hexachlorinated derivate of the fluorescent dye fluorescein. HEX-labeled oligonucleotides are used in PCR and the HEX channel is widely used in multiplex qPCR.

Oligonucleotides with a HEX label can be easily generated using HEX azide and alkyne-containing oligonucleotide via azidealkyne cycloaddition.

HEX exhibits an excitation peak at 533 nm and an emission peak at 549 in green-yellow area, and it can serve as a substitute for JOE, BODIPY™ 530/550, VIC™ because of the similar spectral characteristics.



Structure of HEX azide, 6-isomer



Absorption and emission spectra of HEX

General properties

Appearance: orange solid Mass spec M+ 661.9

increment:

665.09 Molecular weight: 1450752-91-6 CAS number: Molecular formula: C24H12N4Cl6O6

IUPAC name: N-(3-azidopropyl)-2',4,4',5',7,7'-hexachloro-3',6'-dihydroxy-3-oxo-3H-spiro[isobenzofuran-1,9'-xanthene]-6-carboxamide

Solubility: very soluble in DMSO, DMF Quality control: NMR ¹H, HPLC-MS (95%)

Storage conditions: Storage: 24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid

prolonged exposure to light.

This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, Legal statement:

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 533 maximum, nm:

 ϵ , L·mol⁻¹·cm⁻¹: 87770 Emission maximum, 549

Fluorescence 0.57 quantum yield:

CF₂₆₀: 0.30 CF₂₈₀: 0.13

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