

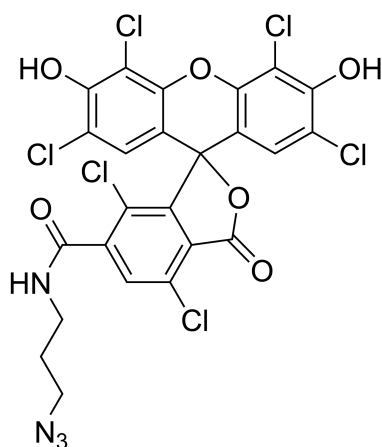
## HEX azide, 6-isomer

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

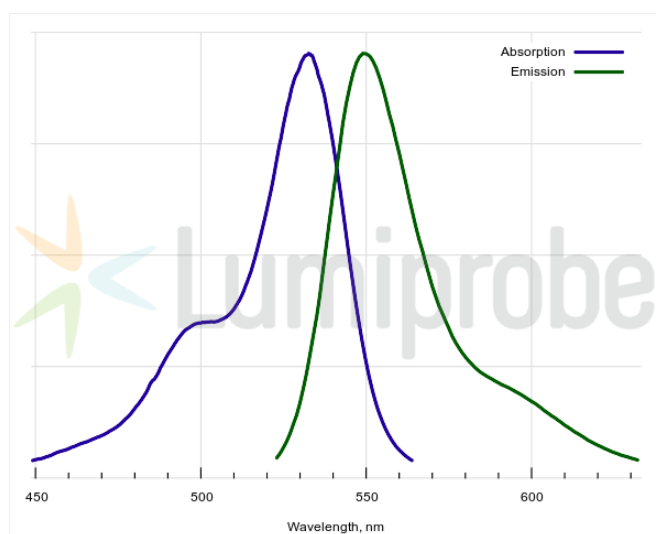
Hexachlorofluorescein (HEX) is a hexachlorinated derivative of the fluorescent dye fluorescein. HEX-labeled oligonucleotides are used in PCR and the HEX channel is widely used in multiplex qPCR.

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

HEX exhibits an excitation peak at 533 nm and an emission peak at 549 nm 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+ increment:	661.9
Molecular weight:	665.09
CAS number:	1450752-91-6
Molecular formula:	C <sub>24</sub> H <sub>12</sub> N <sub>4</sub> Cl <sub>6</sub> O <sub>6</sub>
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 <sup>1</sup> H, HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. 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:	533
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	87770
Emission maximum, nm:	549
Fluorescence quantum yield:	0.57
CF <sub>260</sub> :	0.30

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