

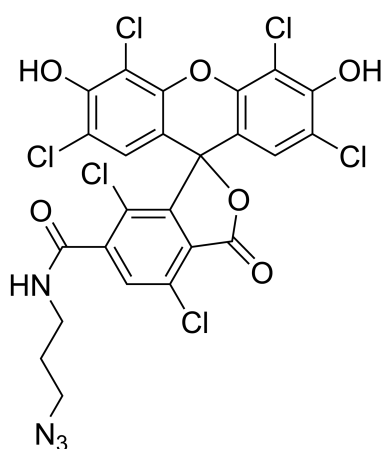
## HEX azide, 6-isomer

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

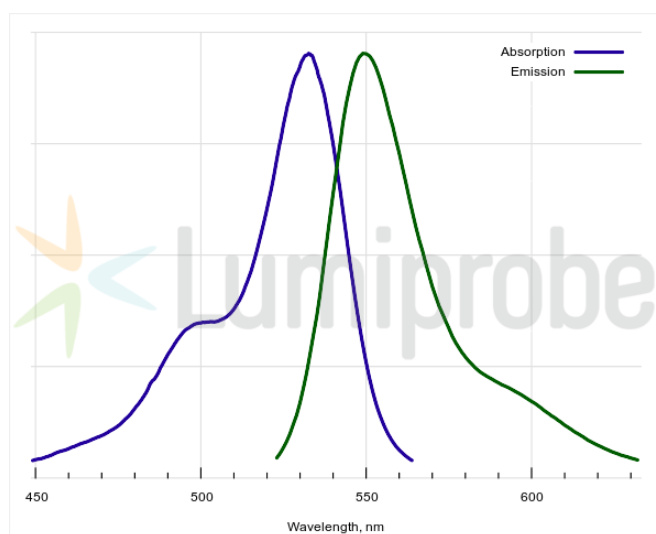
Hexachlorofluorescein (HEX) is a hexachlorinated derivate of the fluorescent dye fluorescein. HEX-labeled oligonucleotides are used in PCR and the HEX channel is widely used in multiplex qPCR.

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

### 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
CF <sub>280</sub> :	0.13

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