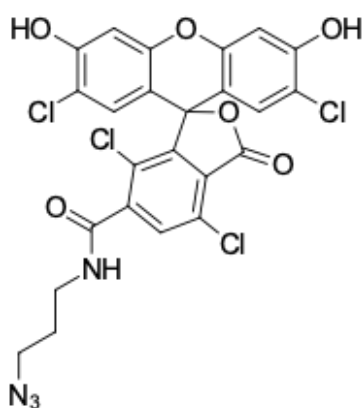


TET azide, 6-isomer

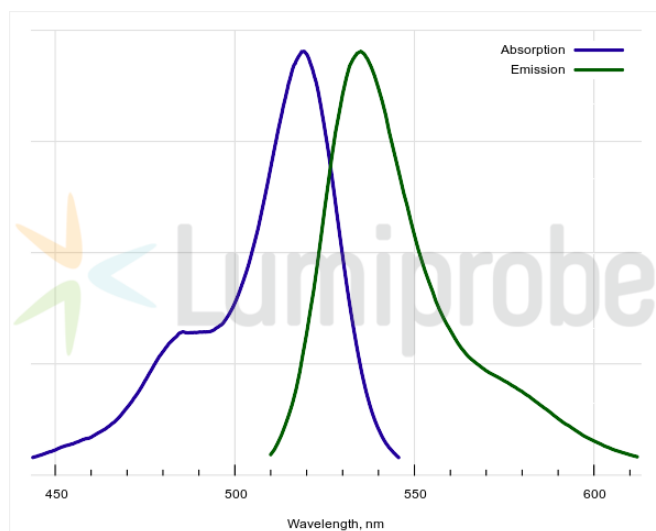
<http://www.lumiprobe.com/p/tet-azide-6>

TET (tetrachlorofluorescein) is a green-fluorescent fluorescein derivate with absorption maximum at 519 nm and emission maximum at 535 nm. TET is spectrally similar to R6G, JOE, and VIC, widely used for labeling PCR probes.

Oligonucleotides labeled with TET are often used in real-time PCR; the preparation of such oligonucleotides can be performed using click chemistry. This derivative is an azide, a pure 6-isomer, for conjugating TET to other molecules by copper-catalyzed and copper-free click reactions.



Structure of TET azide, 6-isomer



Absorption and emission spectra of TET

General properties

| | |
|---------------------|--|
| Appearance: | orange powder |
| Molecular weight: | 596.21 |
| CAS number: | 1450752-90-5 |
| Molecular formula: | $C_{24}H_{14}Cl_4N_4O_6$ |
| Solubility: | in DMSO |
| 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: | 519 |
| ϵ , $L \cdot mol^{-1} \cdot cm^{-1}$: | 100000 |
| Emission maximum, nm: | 535 |
| Fluorescence quantum yield: | 0.47 |
| CF_{260} : | 0.17 |
| CF_{280} : | 0.09 |