

Lumiprobe Corporation

115 Airport Dr Suite 160 Westminster, Maryland 21157

USA

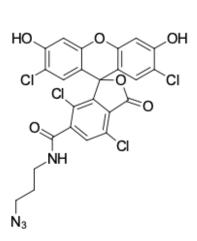
Phone: +1 888 973 6353 Fax: +1 888 973 6354 Email: order@lumiprobe.com

TET azide, 6-isomer

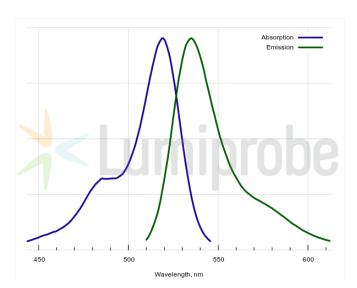
http://www.lumiprobe.com/p/tet-azide-6

TET (tetrachlorofluorescein) is a green-fluorescein 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 receival at -20°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·mol⁻¹·cm⁻¹: 100000 Emission maximum, nm: 535 Fluorescence quantum yield: 0.47 CF_{260} : 0.17 CF_{280} : 0.09