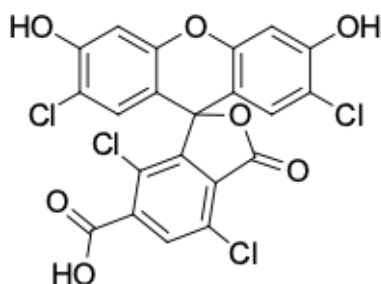


TET carboxylic acid, 6-isomer

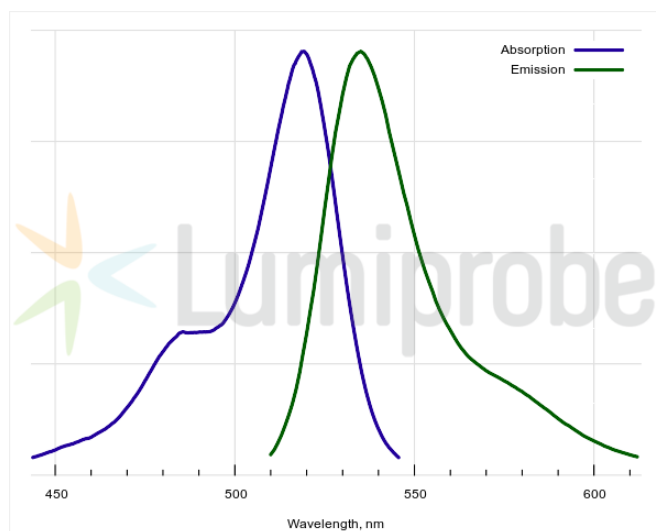
<http://www.lumiprobe.com/p/tet-carboxylic-acid-6>

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.

TET carboxylic acid is a non-reactive form of TET dye that can be used as a reference standard in experiments involving TET dye conjugates. Besides, the carboxylic group can react with hydrazines, hydroxylamines, and amines using carbodiimides such as EDAC.



Structure of TET carboxylic acid, 6-isomer



Absorption and emission spectra of TET, 6-isomer

General properties

Appearance:	orange powder
Molecular weight:	514.10
Molecular formula:	$C_{21}H_8Cl_4O_7$
Solubility:	good in DMSO, DMF, methanol, basic solutions, limited in acetonitrile
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