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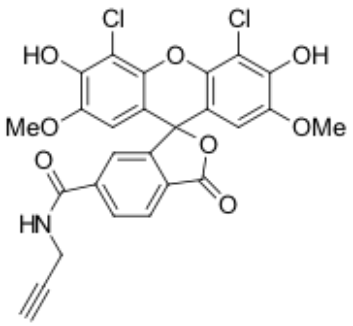
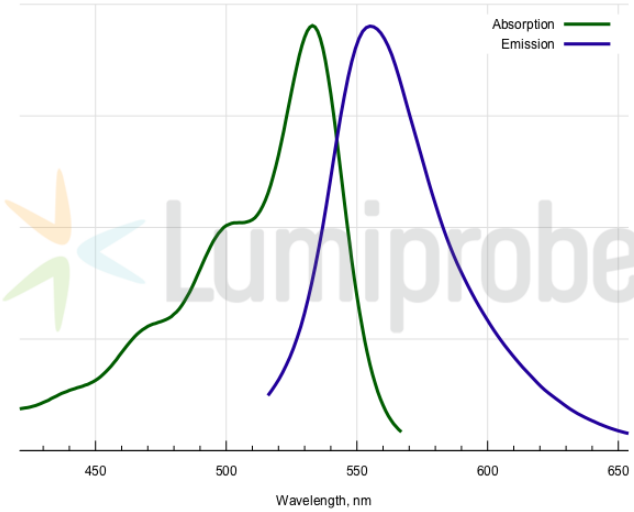
# JOE alkyne, 6-isomer

http://www.lumiprobe.com/p/joe-alkyne-6

JOE dye is a fluorophore similar to TET but with less hydrophobic properties. The dye is widely used for the labeling of nucleic acids. JOE alkyne can be conjugated with azides using a copper-catalyzed click chemistry reaction.




**Structure of 6-JOE alkyne**




**Absorption and emission spectra of JOE dye**

## General properties

| | |
|---|---|
| Appearance: | orange solid |
| Mass spec M+ increment: | 541.0 |
| Molecular weight: | 542.32 |
| Molecular formula: | $C_{26}H_{17}NCl_2O_8$ |
| Solubility: | good in DMF, DMSO |
| Quality control: | NMR $^1$H, HPLC-MS (95%) |
| Storage conditions: | Storage: 24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate. |
| 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$^{-1}$·cm$^{-1}$: | 75000 |
| Emission maximum, nm: | 554 |
| Fluorescence quantum yield: | 0.61 |
| $CF_{260}$: | 0.36 |
| $CF_{280}$: | 0.28 |