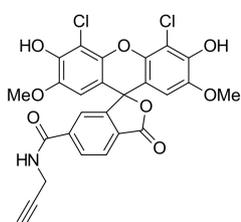


## JOE alkyne, 6-isomer (A270230)

### Specifications:

|                                       |   |
|---------------------------------------|---|
| Name:                                 | JOE alkyne, 6-isomer  |
| Description:                          | JOE dye is a fluorophore similar to TET, but less hydrophobic. The dye is often used for the labeling of nucleic acids. JOE alkyne can be conjugated with azides using copper catalyzed Click chemistry reaction. |
| Absorption Maxima:                    | 533 nm  |
| Extinction Coefficient:               | 75000 M <sup>-1</sup> cm <sup>-1</sup>  |
| Emission Maxima:                      | 554 nm  |
| CF <sub>260</sub> :                   | 0.36  |
| CF <sub>280</sub> :                   | 0.28  |
| Mass Spec M+ Shift after Conjugation: | 541.0   |
| Purity:                               | 95% (by 1H NMR and HPLC-MS).  |
| Molecular Formula:                    | C <sub>26</sub> H <sub>17</sub> NCI <sub>2</sub> O <sub>8</sub>   |
| Molecular Weight:                     | 542.32 kDa  |
| Product Form:                         | Orange solid.   |
| Solubility:                           | Good in DMF and DMSO.   |
| Storage:                              | Shipped at room temperature. Upon delivery, store in the dark at -20°C. Avoid prolonged exposure to light. Desiccate.   |
| Disclaimer:                           | This product is for research use only. It is not intended for diagnostic or therapeutic use.  |

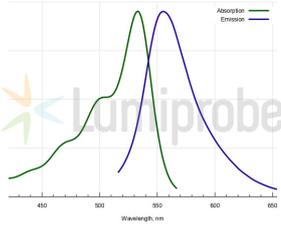
### Images:



Structure of 6-JOE alkyne.

## JOE alkyne, 6-isomer (A270230)

Images continued:



Absorption and emission spectra of JOE dye.