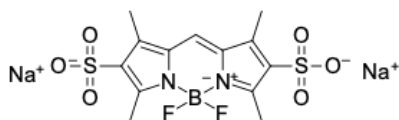


TechnoDye 498/505

<http://www.lumiprobe.com/p/technodye-498-505-w>

TechnoDye 498/505 is a water soluble fluorophore. Its absorption and emission spectra are similar to fluorescein, but it is fluorescent in acidic media, and it is much more stable against photobleaching and oxidation.



Structure of TechnoDye 498/505

General properties

| | |
|---------------------|---|
| Appearance: | orange solid |
| Molecular weight: | 452.18 |
| CAS number: | 105237-27-2 |
| Molecular formula: | $C_{13}H_{13}BF_2N_2Na_2O_6S_2$ |
| IUPAC name: | 4,4-Difluoro-1,3,5,7-tetramethyl-4H-3a,4a-diaza-4-bora-s-indacen-3a-ium-4-uid-2,6-disulfonate |
| Solubility: | very good in water, DMF, 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. |
| Legal statement: | Product is offered and sold for research purposes only. Product is not tested for safety and efficacy in food, drug, medical device, cosmetic, no express or implied authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, for humans or animals or for commercial purposes. |

Spectral properties

| | |
|---|-------|
| Excitation/absorption maximum, nm: | 498 |
| ϵ , $L \cdot mol^{-1} \cdot cm^{-1}$: | 80000 |
| Emission maximum, nm: | 505 |
| Fluorescence quantum yield: | 1.00 |