

BDP® TMR tetrazine

http://www.lumiprobe.com/p/bdp-tmr-tetrazine

BDP TMR, an orange-fluorescent dye. Because of its small size and relatively long excitation lifetime, this fluorophore can be used for studying ligand-receptor interactions based on fluorescence polarization.

A tetrazine fragment in the molecule can rapidly react with trans-cyclooctene and cyclopropene derivatives in [4+2] cycloaddition reactions, which result in stable biomolecule-fluorophore conjugates.



Structure of BDP TMR tetrazine

General properties

| Appearance: | red powder |
|---------------------|--|
| Molecular weight: | 581.42 |
| Molecular formula: | $C_{31}H_{30}N_7BF_2O_2$ |
| Solubility: | good in alcohols, 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. |
| 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. |
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Spectral properties

| Excitation/absorption maximum, nm: 542 | | |
|--|-------|--|
| ε, L·mol ⁻¹ ·cm ⁻¹ : | 55000 | |
| Emission maximum, nm: | 574 | |
| Fluorescence quantum yield: | 0.64 | |
| CF ₂₆₀ : | 0.16 | |
| CF ₂₈₀ : | 0.16 | |

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