# Oxazole Blue Homodimer (POPO™-1), 1 mM in DMSO

Oxazole Blue Homodimer, also known as POPO™-1, is a blue-fluorescent, cell-impermeant nucleic acid stain that can be used to stain dead or fixed cells.

**Product attributes**

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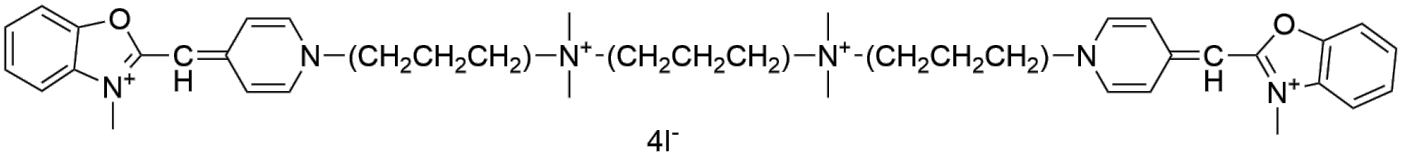
|---|
| Apoptosis/viability marker |
| For live or fixed cells |
| Detection method/readout |
| Probe cellular localization |
| Assay type/options |
| Cell permeability |
| Colors |
| CAS number |
| Excitation/Emission |

## Product Description

Oxazole Blue Homodimer, also known as POPO™-1, is a blue-fluorescent, cell-impermeant, high-affinity carbocyanine dimeric nucleic acid stain. The dye is essentially non-fluorescent in the absence of nucleic acids but exhibits strong excitation/emission maxima 433/457 nm when bound to nucleic acids. In addition, the dye is non-cytotoxic and may be used for long-term monitoring of viability in cell cultures.

- Dimeric nucleic acid stain
- Cell-impermeant
- $\lambda_{Ex}/\lambda_{Em}$ (with DNA) = 433/457 nm
- Supplied at 1 mM in DMSO
- $C_{41}H_{54}I_4N_6O_2$
- MW: 1170
- CAS number: 169454-15-3




See the table below for other chemical equivalents of Thermo Fisher Scientific's branded dead-cell selective nucleic acid dyes.

Biotium also offers unique NucSpot® Nuclear Stains for bright and specific nuclear staining in dead or fixed cells. The stains are available in a wide range of colors from green to near-IR. See our Cellular Stains Selection Guide and Cellular Stains Table for more information on other nuclear stains we offer.

| Product | Equivalent to | Color (Ex/Em) | Catalog No. |
|---|---|---|---|
| Oxazole Blue, 1 mM in DMSO | PO-PRO™-1 | Blue (434/457 nm) | 40091 |
| Oxazole Blue Homodimer, 1 mM in DMSO | POPO™-1 | Blue (433/457 nm) | 40093 |
| Oxazole Yellow, 1 mM in DMSO | YO-PRO®-1 | Green (491/506 nm) | 40089 |
| Oxazole Yellow Homodimer, 1 mM in DMSO | YOYO®-1 | Green (491/508 nm) | 40090 |
| TO Iodide, 1 mM in DMSO | TO-PRO®-1 | Green (515/531 nm) | 40088 |
| Thiazole Orange Homodimer, 1 mM in DMSO | TOTO®-1 | Green (514/531 nm) | 40079 |
| Oxazole Red, 1 mM in DMSO | YO-PRO®-3 | Far-red (613/629 nm) | 40105 |
| Oxazole Red Homodimer, 1 mM in DMSO | YOYO®-3 | Far-red (612/631 nm) | 40106 |
| Thiazole Red, 1 mM in DMSO | TO-PRO®-3 | Far-red (642/657 nm) | 40087 |
| Thiazole Red Homodimer, 1 mM in DMSO | TOTO®-3 | Far-red (642/661 nm) | 40080 |