

**Oxazine 1 \*CAS 24796-94-9\***

Catalog number: 89

Unit size: 10 mg

**Product Details**

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Storage Conditions Freeze (&lt;15 °C), Minimize light exposure

Expiration Date 24 months upon receiving

**Chemical Properties**

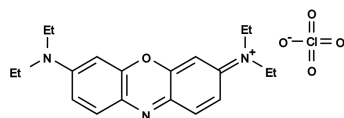
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Appearance Green solid

Molecular Weight 423.89

Soluble In DMSO

Chemical Structure

**Spectral Properties**

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Excitation Wavelength 648 nm

Emission Wavelength 668 nm

**Applications**

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Oxazine 1 is one of the most fluorescent NIR dyes. It has maximum absorption around ~650 nm with extinction coefficient larger than 100,000 M<sup>-1</sup> cm<sup>-1</sup>. It has fluorescence emission around 670 nm, which is pH-independent. Although Oxazine 1 is quite stable from pH 4 to pH 10, it might be reduced by some biological molecules (such as DTT, GSH etc) at high concentration. Oxazine 1 is also an efficient laser dye tunable around 670 nm.