Product number: K6-207
Product name: 3-DAB

General Data

Molecular Mass: 273.33

Solubility: Alcohol, DMF, DMSO, Toluene

Insoluble: Water (low solubility)

Storage: Store in absence of light and refrigerate

Description

- Hydrophobic fluorescent dye

Applications

- Staining of cells
- Fluorescent probe
- Dye for gel electrophoresis

Advantages

- High quantum yield in presence of proteins or in cells
- Perfectly suited for excitation with the 405-nm, 436-nm and 488-nm diode lasers

Spectral Data

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Absorption max [nm]</th>
<th>Extinction Coefficient [M⁻¹cm⁻¹]</th>
<th>Fluorescence max [nm]</th>
<th>Q.Y.¹ [%]</th>
<th>Luminescence Lifetime [ns]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>445</td>
<td>9700</td>
<td>582</td>
<td>43</td>
<td></td>
</tr>
<tr>
<td>Ethanol</td>
<td>460</td>
<td>8600</td>
<td>665</td>
<td>22</td>
<td>4.0</td>
</tr>
<tr>
<td>Phosphate buffer pH 7.4</td>
<td>455</td>
<td></td>
<td>700</td>
<td>2</td>
<td>1.5</td>
</tr>
<tr>
<td>In presence of 8 mg/mL of BSA</td>
<td>465</td>
<td></td>
<td>637</td>
<td>24</td>
<td>6.5</td>
</tr>
</tbody>
</table>

¹ Excitation at 450 nm

Absorption and emission spectrum of 3-DAB in toluene

Absorption and emission spectrum of 3-DAB in ethanol
Product number: K6-207
Product name: 3-DAB

Absorption and emission spectrum of 3-DAB in phosphate buffer pH 7.4