Product datasheet

Fluo-2 AM, green fluorescent Ca$^{2+}$ binding dye
ab142775

Overview

Product name: Fluo-2 AM, green fluorescent Ca$^{2+}$ binding dye

Description: High affinity, green fluorescent Ca$^{2+}$ binding dye. Cell-permeable.

Biological description: High affinity, green fluorescent Ca$^{2+}$ binding dye. Binds to intracellular Ca$^{2+}$ ($K_d = 230$ nM). Cell-permeable. Fluorescence intensity increases upon Ca$^{2+}$ binding. Ex$^{488}$/Em$^{515}$.

Purity: > 95%

Chemical structure:

![Chemical structure of Fluo-2 AM]

Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excitation</td>
<td>490nm</td>
</tr>
<tr>
<td>Emission</td>
<td>520nm</td>
</tr>
<tr>
<td>Chemical name</td>
<td>Bis(Acetoxymethyl) 2,2'-(4-(6-(acetoxymethoxy)-3-oxo-3H-xanthen-9-yl)-2-(2-(bis(2-acetoxymethoxy)-2-oxoethyl)amino)phenoxy)ethoxy)-5-methylphenyl]azanediyl)diacetate</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>1061.00</td>
</tr>
<tr>
<td>Molecular formula</td>
<td>C$<em>{51}$H$</em>{52}$N$<em>{2}$O$</em>{23}$</td>
</tr>
<tr>
<td>Storage instructions</td>
<td>Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.</td>
</tr>
<tr>
<td>Solubility overview</td>
<td>Soluble in DMSO</td>
</tr>
<tr>
<td>Handling</td>
<td>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in</td>
</tr>
</tbody>
</table>
tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

For more information on AM esters please visit our AM esters FAQ page.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

**SMILES**

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**Source**

Synthetic

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**Please note:** All products are “FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS”

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