**Product datasheet**

**PBFI AM, fluorescent $K^+$ binding probe ab142804**

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**Overview**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product name</strong></td>
<td>PBFI AM, fluorescent $K^+$ binding probe</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Cell-permeable, fluorescent $K^+$ binding probe</td>
</tr>
<tr>
<td><strong>Biological description</strong></td>
<td>Cell-permeable, fluorescent $K^+$ binding probe ($K_d = 5$ mM). Active <em>in vitro</em>. Non-specific esterases hydrolyze the AM esters to produce the water-soluble form of PBFI. Excitation is 340/390 nm.</td>
</tr>
<tr>
<td><strong>Purity</strong></td>
<td>&gt; 94%</td>
</tr>
<tr>
<td><strong>CAS Number</strong></td>
<td>124549-23-1</td>
</tr>
<tr>
<td><strong>Chemical structure</strong></td>
<td><img src="image" alt="Chemical structure" /></td>
</tr>
</tbody>
</table>

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**Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excitation</td>
<td>340nm</td>
</tr>
<tr>
<td>Emission</td>
<td>500nm</td>
</tr>
</tbody>
</table>
Chemical name: bis(Acetyloxymethyl)4-[6-[2-[2,4-bis(acetyloxymethoxycarbonyl)phenyl]-5-methoxy-1-benzofuran-6-yI]-1,4,10,13-tetraoxa-7,16-diazacyclooctadec-7-yl]-5-methoxy-1-benzofuran-2-yI]benzene-1,3-dicarboxylate

Molecular weight: 1171.00

Molecular formula: C_{58}H_{62}N_{2}O_{24}

PubChem identifier: 3283499

Storage instructions: Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.

Solubility overview: Soluble in DMSO

Handling: Solvents listed may be unsuitable for use in biological experiments. These solvents are intended to enable solubilisation and mixing of components. We recommend that biologically unsuitable solvents are removed prior to solubilisation in experimental media.

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 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.

Refer to SDS for further information.

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

SMILES: CC(=O)OCOC(=O)C1=CC(=C(C=C=C1)C2=CC3=CC(=C(C=C3O2)N4CCOCOCOCN(CCOCOC CC4)C5=C(C=C6C=C(OC6=C5)C7=C(C=C=C7)C(=O)OCOC(=O)C)C(=O)OCOC(=O)C)OC )OC(=O)OCOC(=O)C

Source: Synthetic

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

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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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