# Product datasheet

## Jasplakinolide, Actin polymerization and stabilization inducer ab141409

### Overview

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Jasplakinolide, Actin polymerization and stabilization inducer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Actin polymerization and stabilization inducer. Cell-permeable.</td>
</tr>
<tr>
<td><strong>Biological description</strong></td>
<td>Cell-permeable actin polymerization and stabilization inducer. Potent antiproliferative activity (IC₅₀ = 15 nM). Antitumor and antifungal agent. Active <em>in vitro</em>.</td>
</tr>
<tr>
<td><strong>Purity</strong></td>
<td>&gt; 95%</td>
</tr>
<tr>
<td><strong>CAS Number</strong></td>
<td>102396-24-7</td>
</tr>
</tbody>
</table>

### Chemical structure

![Chemical structure](image)

### Properties

<table>
<thead>
<tr>
<th><strong>Chemical name</strong></th>
<th>Cyclo[(3R)-3-(4-hydroxyphenyl)-β-alanyl-(2S,4E,6R,8S)-8-hydroxy-2,4,6-trimethyl-4-nonenoyl-L-alanyl-2-bromo-N-methyl-D-tryptophyl]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Molecular weight</strong></td>
<td>709.68</td>
</tr>
<tr>
<td><strong>Molecular formula</strong></td>
<td>C₃₆H₄₅BrN₄O₆</td>
</tr>
<tr>
<td><strong>PubChem identifier</strong></td>
<td>6436289</td>
</tr>
</tbody>
</table>

**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**: 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.

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

SMILES

\[
C\{C@\@H\}1C\{C@\@H\}\{OC(=O)C\{C@\@H\}(NC(=O)\{C@\@H\}(N(C(=O)\{C@\@H\}(NC(=O)\{C@\@H\})(C/C(=C1)/C)C)C)C)CC2=C(NC3=CC=CC=C32)Br)C4=CC=C(C=C4)O)C
\]

Source

Jaspis splendens

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