# Product datasheet

**(Z)-4-Hydroxytamoxifen, estrogen receptor modulator**

**ab141943**

<table>
<thead>
<tr>
<th>References</th>
</tr>
</thead>
</table>

## Overview

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>(Z)-4-Hydroxytamoxifen, estrogen receptor modulator</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Potent and selective estrogen receptor modulator</td>
</tr>
<tr>
<td><strong>Biological description</strong></td>
<td>Potent and selective estrogen receptor antagonist (IC$<em>{50}$ = 7 nM). Active metabolite of (Z)-tamoxifen (ab120656) and exhibits higher potency in vitro. Shows antiproliferative effect (IC$</em>{50}$ = 27 μM). Induces p21 nuclear localization.</td>
</tr>
<tr>
<td><strong>Purity</strong></td>
<td>&gt; 99%</td>
</tr>
<tr>
<td><strong>CAS Number</strong></td>
<td>68047-06-3</td>
</tr>
</tbody>
</table>

## Chemical structure

![Chemical structure of (Z)-4-Hydroxytamoxifen](image)

## Properties

<table>
<thead>
<tr>
<th><strong>Chemical name</strong></th>
<th>4-[(Z)-1-[4-[2-(Dimethylamino)ethoxy]phenyl]-2-phenylbut-1-enyl]phenol</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Molecular weight</strong></td>
<td>387.52</td>
</tr>
<tr>
<td><strong>Molecular formula</strong></td>
<td>C$<em>{26}$H$</em>{29}$NO$_2$</td>
</tr>
<tr>
<td><strong>PubChem identifier</strong></td>
<td>449459</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 ethanol to 50 mM and in DMSO to 100 mM

### 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**

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CC(=C(C1=CC=C(C=C1)O)C2=CC=C(C=C2)OCCN(C)C)C3=CC=CC=C3
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**Source**

Synthetic

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