(Z)-4-Hydroxytamoxifen ab141943

1 References

Overview

Product name
(Z)-4-Hydroxytamoxifen

Description
Potent and selective estrogen receptor modulator

Biological description
Potent and selective estrogen receptor antagonist ($IC_{50} = 7$ nM). Active metabolite of (Z)-
tamoxifen (ab120656) and exhibits higher potency in vitro. Shows antiproliferative effect ($IC_{50} =$
27 μM). Induces p21 nuclear localization.

Purity
> 99%

Properties

Chemical name
4-[(Z)-1-[4-[2-(Dimethylamino)ethoxy]phenyl]-2-phenylbut-1-enyl]phenol

Molecular weight
387.52

Chemical structure

\[
\text{\begin{tikzpicture}
\draw (-0.5,0) -- (0.5,0);
\draw (0,-0.5) -- (0,0.5);
\draw (1.5,0) -- (2,0);
\draw (2,0) -- (2,1);
\draw (2,1) -- (1.5,1);
\draw (1.5,1) -- (1,1);
\draw (1,1) -- (1,0);
\draw (1,0) -- (0.5,0);
\draw (0,0) -- (0,0.5);
\draw (0,0.5) -- (-0.5,0.5);
\draw (-0.5,0.5) -- (-0.5,1);
\draw (-0.5,1) -- (0,1);
\draw (0,1) -- (0,0.5);
\draw (0,0.5) -- (0,0);
\draw (0,0) -- (0,-0.5);
\draw (0,-0.5) -- (-0.5,-0.5);
\draw (-0.5,-0.5) -- (-0.5,-1);
\draw (-0.5,-1) -- (0,-1);
\draw (0,-1) -- (0,-0.5);
\draw (0,-0.5) -- (0,0);
\end{tikzpicture}}
\]

Molecular formula
C$_{26}$H$_{29}$NO$_2$

CAS Number
68047-06-3

PubChem identifier
449459

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
equilibrare 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

CCC(=C(C1=CC=CC(=C1)O)C2=CC=C(C=C2)OCCN(C)C)C3=CC=CC=CC3

Source

Synthetic

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE, NOT FOR USE IN HUMANS"

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