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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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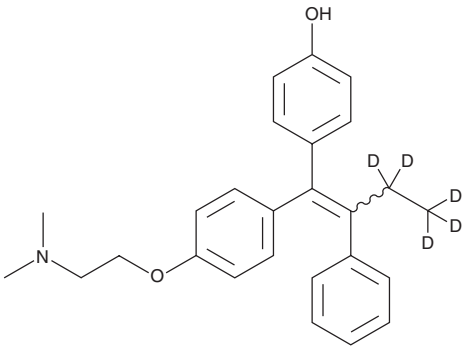
PRODUCT INFORMATION

(E/Z)-4-hydroxy Tamoxifen-d_5

Item No. 34232

Formal Name:	4-[1-[4-[2-(dimethylamino)ethoxy] phenyl]-2-phenyl-1-buten-1-yl-3,3,4,4,4-d_5]-phenol
Synonyms:	Afimoxifene-d_5, 4-OHT-d_5
MF:	$C_{26}H_{24}D_5NO_2$
FW:	392.6
Chemical Purity:	≥95% ((E/Z)-4-hydroxy Tamoxifen)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_5); ≤1% d_0
Supplied as:	A solid
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

(E/Z)-4-hydroxy Tamoxifen-d_5 is intended for use as an internal standard for the quantification of (E/Z)-4-hydroxy tamoxifen (Item No. 17308) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

(E/Z)-4-hydroxy Tamoxifen-d_5 is supplied as a solid. A stock solution may be made by dissolving the (E/Z)-4-hydroxy tamoxifen-d_5 in the solvent of choice, which should be purged with an inert gas. (E/Z)-4-hydroxy Tamoxifen-d_5 is soluble in organic solvents such as methanol and DMSO.

Description

(E/Z)-4-hydroxy Tamoxifen is an active metabolite of tamoxifen (Item No. 13258).[1] It is formed from tamoxifen by the cytochrome P450 (CYP) isoform CYP2D6. (E/Z)-4-hydroxy Tamoxifen is cytotoxic to MCF-7 and MDA-MB-231 breast cancer cells (IC_{50}s = 27 and 18 µM, respectively).[2] It also stimulates LC3 lipidation and the formation of autophagic vesicles in MCF-7 cells in a superoxide-dependent manner.[3]

References

1. Desta, Z., Ward, B.A., Soukhova, N.V., *et al.* Comprehensive evaluation of tamoxifen sequential biotransformation by the human cytochrome P450 system in vitro: Prominent roles for CYP3A and CYP2D6. *J. Pharmacol. Exp. Ther.* **310(3)**, 1062-1075 (2004).
2. Seeger, H., Huober, J., Wallwiener, D., *et al.* Inhibition of human breast cancer cell proliferation with estradiol metabolites is as effective as with tamoxifen. *Horm. Metab. Res.* **36(5)**, 277-280 (2004).
3. Duan, L., Danzer, B., Levenson, V.V., *et al.* Critical roles for nitric oxide and ERK in the completion of prosurvival autophagy in 4OHTAM-treated estrogen receptor-positive breast cancer cells. *Cancer Lett.* **353(2)**, 290-300 (2014).

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