

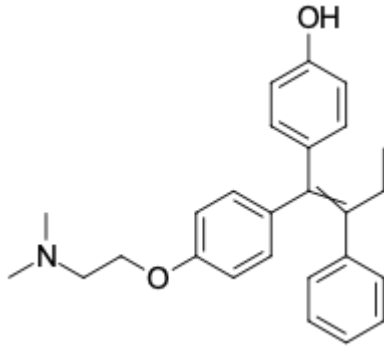
(E/Z)-4-Hydroxytamoxifen

<http://cn.lumiprobe.com/p/4-hydroxy-tamoxifen>

(E/Z)-4-Hydroxytamoxifen (4-OHT, cis/trans-4-hydroxytamoxifen, afimoxifene) is a selective estrogen receptor (ER) modulator, an active metabolite of tamoxifen. 4-Hydroxytamoxifen is widely used as a research tool for inducible genome manipulation.

4-Hydroxytamoxifen is used in the inducible Cre-LoxP system to control CreER/CreERT2 recombinase activity and trigger tissue-specific gene expression or genome/genetic modification (e.g., gene deletion). 4-Hydroxytamoxifen is a part of the TRAP/TRAP2 (targeted recombination in active populations) systems providing genetic access to neuron activity. It is also used in CRISPR/Cas9 gene editing to activate inactivated Cas9 nuclease.

Also, 4-Hydroxytamoxifen was reported to be an intramembranous lipid peroxidation inhibitor, exhibiting peroxy radical scavenging activity.



外观:

分子 387.52

量:

CAS 68392-35-8

编号:

分子 $C_{26}H_{29}NO_2$

式:

IUPAC 4-[1-[4-(Dimethylaminoethoxy)phenyl]-2-phenyl-1-butenyl]phenol

名称:

溶解

度:

质量

控制:

储存

条件:

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