

Tamoxifen-D5

Chemical Properties

CAS No. :	157698-32-3
Formula:	C ₂₆ H ₂₉ NO
Molecular Weight:	376.55
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

Biological Description

Description	Tamoxifen-d5 is a deuterated form of Tamoxifen. Tamoxifen is an orally active selective estrogen receptor modulator (SERM) that blocks estrogen action in breast cells while activating estrogenic activity in other cells, such as those in bone, liver, and uterus. Tamoxifen is also a potent activator of Hsp90 and enhances the ATPase activity of the Hsp90 molecular chaperone.
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Solubility Information

Solubility	DMSO: 66.67 mg/mL (177.05 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6557 mL	13.2784 mL	26.5569 mL
5 mM	0.5311 mL	2.6557 mL	5.3114 mL
10 mM	0.2656 mL	1.3278 mL	2.6557 mL
50 mM	0.0531 mL	0.2656 mL	0.5311 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Osborne CK. Tamoxifen in the treatment of breast cancer. *N Engl J Med.* 1998 Nov 26;339(22):1609-18.
Zhao R, et al. Tamoxifen enhances the Hsp90 molecular chaperone ATPase activity. *PLoS One.* 2010 Apr 1;5(4):e9934.

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