



# LKT Laboratories, Inc.

## (Z)-4-Hydroxytamoxifen

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### Product Information

Product ID H9711

CAS No. 68047-06-3

Chemical Name

Synonym

Formula  $C_{26}H_{29}NO_2$

Formula Wt. 387.51

Melting Point 142-144°C

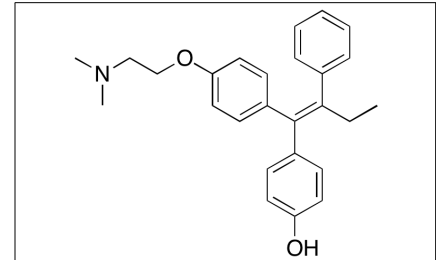
Purity ≥98%

Solubility Soluble in DMSO, ethanol (20mg/ml) or methanol (10mg/ml);  
insoluble water.

Store Temp -20°C

Ship Temp Ambient

**Description** (Z)-4-Hydroxytamoxifen is the more active isomer of 4-hydroxytamoxifen. 4-Hydroxytamoxifen is the active metabolite of tamoxifen, a selective estrogen receptor modulator (SERM) that acts as an agonist or antagonist in various tissues. 4-Hydroxytamoxifen exhibits anticancer chemotherapeutic activity, inducing autophagy and vacuole formation as well as KRAS degradation in various cancer cell lines. In cardiac myocytes, 4-hydroxytamoxifen decreases  $Ca^{2+}$  amplitude, slowing relaxation and decreasing contractility.



### Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
H9711	5 mg	\$127.30
H9711	10 mg	\$212.10
H9711	25 mg	\$440.90

**References** Asp ML, Martindale JJ, Metzger JM. Direct, differential effects of tamoxifen, 4-hydroxytamoxifen, and raloxifene on cardiac myocyte contractility and calcium handling. *PLoS One*. 2013 Oct 24;8(10):e78768. PMID: 24205315.

Kohli L, Kaza N, Coric T, et al. 4-Hydroxytamoxifen induces autophagic death through K-Ras degradation. *Cancer Res*. 2013 Jul 15;73(14):4395-405. PMID: 23722551.

Schwartz JA, Zhong L, Deighton-Collins S, et al. Mutations targeted to a predicted helix in the extreme carboxyl-terminal region of the human estrogen receptor-alpha alter its response to estradiol and 4-hydroxytamoxifen. *J Biol Chem*. 2002 Apr 12;277(15):13202-9. Erratum in: *J Biol Chem* 2002 Jul 5;277(27):24842. PMID: 11823467.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.