

Tamoxifen $\geq 99\%$ (BL-49141)

Product information

InChI Key	NKANXQFJJICGDU-QPLCGJKRSA-N
Assay	$\geq 99\%$
MP	97-98 ° C (lit.)
Solubility	H ₂ O: insoluble <0.1% at 20 ° C
storage temp.	2-8° C
Originator	AstraZeneca
Gene Information	human ... CYP1A2 (1544), EBP (10682), ESR1 (2099), ESR2 (2100), ESRRA (2101)

Properties

CAS Number	10540-29-1
Empirical Formula	$C_6H_5C(C_2H_5)=C(C_6H_5)C_6H_4OCH_2CH_2N(CH_3)_2$
Molecular Weight	371.51
Beilstein Registry Number	24900307
EC Number	234-118-0

General description

Tamoxifen is a selective estrogen response modifier (SERM), protein kinase C inhibitor and anti-angiogenic factor. Tamoxifen is a prodrug that is metabolized to active metabolites 4-hydroxytamoxifen (4-OHT) and endoxifen by cytochrome P450 isoforms CYP2D6 and CYP3A4. In breast cancer, the gene repressor activity of tamoxifen against ERBB2 is dependent upon PAX2. Blocks estradiol-stimulated VEGF production in breast tumor cells.