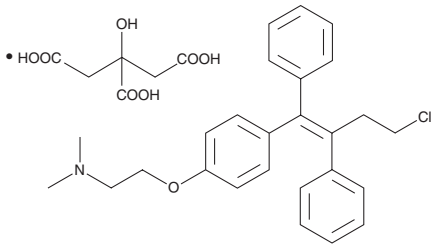
PRODUCT INFORMATION

Toremifene (citrate)

Item No. 20854

CAS Registry No.: 89778-27-8
Formal Name: 2-[4-[(1Z)-4-chloro-1,2-diphenyl-1-buten-1-yl]phenoxy]-N,N-dimethyl-ethanamine, 2-hydroxy-1,2,3-monopropanetricarboxylate
Synonyms: GTx-006, NK 622, NSC 613680
MF: $C_{26}H_{28}ClNO \bullet C_6H_8O_7$
FW: 598.1
Purity: ≥98%
UV/Vis.: λ_{max}: 236, 276 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

Toremifene (citrate) is supplied as a crystalline solid. A stock solution may be made by dissolving the toremifene (citrate) in the solvent of choice. Toremifene (citrate) is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of toremifene (citrate) in these solvents is approximately 25 and 30 mg/ml, respectively.

Toremifene (citrate) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, toremifene (citrate) should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Toremifene (citrate) has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Toremifene (citrate) is an orally bioavailable selective estrogen receptor modulator (SERM) that evokes tissue-dependent effects similar to that of tamoxifen (Item No. 13258).[1] It has been shown to block estrogen-stimulated growth of MCF-7 breast cancer cells grown in tissue culture, to inhibit ovariectomy-induced bone loss in rats, and to stimulate endometrial growth similar to that of tamoxifen.[1]

Reference

1. Goldstein, S.R., Siddhanti, S., Ciaccia, A.V., *et al.* A pharmacological review of selective oestrogen receptor modulators. *Hum. Reprod. Update* **6(3)**, 212-224 (2000).

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