

## 枸橼酸他莫昔芬; Tamoxifen Citrate

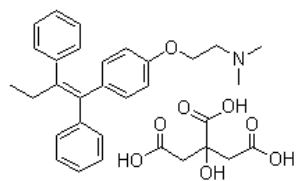
产品编号: MB1233

质量标准: >99.0%,BR

包装规格: 1G;5G

产品形式: solid

### 基本信息

分子式	C <sub>26</sub> H <sub>29</sub> NO·C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>	结 构 式	
分子量	563.64		
CAS No.	54965-24-1		
储存条件	常温, 避光防潮密闭干燥		
溶解性 (25°C)	DMSO : 20mg/ml		
注意事项	溶解性是在室温下测定的, 如果温度过低, 可能会影响其溶解性。		
其他说明	为了您的安全和健康, 请穿实验服并戴一次性手套操作。		

**产品简介:** 枸橼酸他莫昔芬结构与雌激素相似, 它可以与核内雌激素受体(En)竞争结合, 形成受体复合物, 抑制细胞分裂、生长, 阻止雌激素发挥作用。

### 物理性状及指标:

外观: .....白色或类白色粉末

溶解性: .....DMSO: 20 mg/mL

含量: .....>99.0%

生物活性 : (来自公开文献, 仅供参考)

靶点	Estrogen receptor
体外研究	Effects of tamoxifen citrate on cell growth of MCF-7, UM-SCC-5, and UM-SCC-17B. Cells were used during passages (P) 202, 66, and 46, respectively. Three days after plating, cells were treated with tamoxifen citrate at concentrations of 1, 2, 3, 4, 5, 6, 7, or 8 μ /L, as indicated. Cultures were fed daily with complete Eagle's minimum essential medium supplemented with 5% dextran 70-charcoal-treated fetal bovine serum (D5). Drug solutions were prepared fresh for each feeding, and controls were fed with D5 containing 0.07% alcohol. Replicate wells were harvested by trypsin-edetic acid, and viable cells were counted and plotted as average cell number per well[1].
体内研究	SB pre-treatment group: animals were divided into three subgroups (7 rats/group): Subgroup I (SB-1): rats received SB for 7 days and then received saline for 14 days. Subgroup II (TC-1): rats received saline for 7 days and then received TC for 14 days. Subgroup III (SB-TC): rats received SB for 7 days and then received TC for 14 days. SB post-treatment group: animals of this group were divided into three subgroups (7 rats/group): Subgroup I (SB-2): rats received saline for 14 days and then received SB for 7 days.

	Subgroup II (TC-2): rats received TC for 14 days and then received saline for 7 days. Subgroup III (TC-SB): rats received TC for 14 days and then received SB for 7 days[2].
参考文献	[1]:Growth Inhibition of Laryngeal UM-SCC Cell Lines by Tamoxifen: Comparison With Effects on the MCF-7 Breast Cancer Cell Line   JAMA Otolaryngology–Head & Neck Surgery   JAMA Network. [2]:Potential anti-genotoxic effect of sodium butyrate to modulate induction of DNA damage by tamoxifen citrate in rat bone marrow cells   SpringerLink

**用途及描述:** 科研试剂, 广泛应用于分子生物学, 药理学等科研方面, 严禁用于人体;

1. 产生持久的抗雌激素效应, 是乳腺癌术后辅助内分泌治疗的首选药物;
2. 临床用于治疗女性复发转移乳腺癌和手术后转移的辅助治疗, 预防复发;
3. 枸橼酸他莫昔芬可以通过降低膜流通性和增强细胞间结合部位的刚性, 使癌症转移促进剂及各种活化酶浓度和活性减少, 从而抑制或阻碍癌细胞的生长和转移;
4. 它还可以促使肿瘤病灶周围细胞分泌负性生长因子—转化生长因子 TGF—G, 扼制癌细胞的无限繁殖;
5. 并可抑制由人体中性白细胞所产生的过氧化氢造成 DNA 碱基发生氧化性破坏, 故其对于乳腺癌之外的其他恶性肿瘤的治疗和预防均有益处。

#### 储液配置

体 积 浓度	1 mg	5 mg	10 mg
1 mM	1.7742 mL	8.8709 mL	17.7418 mL
5 mM	0.3548 mL	1.7742 mL	3.5484 mL
10 mM	0.1774 mL	0.8871 mL	1.7742 mL
50 mM	0.0355 mL	0.1774 mL	0.3548 mL

**使用浓度:** 具体使用浓度请参考相关文献, 并根据自身实验条件 (如实验目的, 细胞种类, 培养特性等) 进行摸索和优化。

#### 【注意】

- 我司产品为非无菌包装, 若用于细胞培养, 请提前做预处理, 除去热原细菌, 否则会导致染菌。
- 部分产品我司仅提供部分信息, 我司不保证所提供信息的权威性, 以上数据仅供参考交流研究之用。