

Catalog	Unit
TBI1085 - 10MG	10 mg
TBI1085 - 50MG	50 mg

Product Details

Formal Name: N,N-diethyl-2-(4-phenylmethyl)ethanamine hydrochloride

Alternate Names: YMB-1002; BMS-217380-01

Molecular Formula: C₁₉H₂₅NO

Formula Weight: 283.42

CAS Number: 92981-78-7

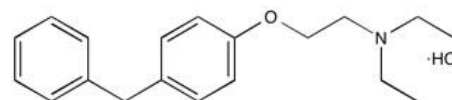
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (30 mg/ml); Water (75 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

Anti-estrogen; Chemo-potentiating agent

Functions

Tesmilifene (92981-78-7), an analog of tamoxifen, acts as a chemopotentiator and antineoplastic agent and was developed for the treatment of breast cancer but never marketed. It binds with high affinity to the anti-estrogen binding site (AEBS) in rat liver microsomes but does not bind to the estrogen receptor (at or below 10 μM). Displaces histamine from AEBS, an activity which correlates with its cytotoxic effects on breast cancer cells. Enhances the cytotoxicity of taxol, epirubicin, doxorubicin and vinorelbine in multidrug resistance cell lines. It has been shown to increase the permeability of the blood-brain and blood-glioma barrier in culture and animal models by modifying brain endothelial functions.

Application Procedures

First dissolved in DMSO (30 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or water may be stored at -20°C for up to 3 months.

Relative Products

TBI1170	Mitomycin C
TBI1345	E64, Cysteine protease inhibitor
TBI1347	E64d, Cysteine protease inhibitor
TBI2064	Chromomycin A3
TBI2069	Cytochalasin B
TBI2794	5-EDU, DNA Click labeling probe
TBI2071	Cytochalasin D
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2140	Gemcitabine
TBI2058	Aphidicolin, DNA polymerase Inhibitor

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