

| Catalog | Unit |
|--------------|-------|
| TBI4250-10MG | 10 mg |
| TBI4250-50MG | 50 mg |

Product Details

Formal Name: 7-Chloro-5-(2-chlorophenyl)-1,5-dihydro-4,1-benzothiazepin-2(3H)-one

Molecular Formula: C₁₅H₁₁Cl₂NOS

Formula Weight: 324.22

CAS Number: 75450-34-9

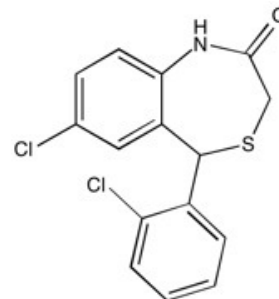
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 25 mg/ml).

Storage: RT

Stability: ≥ 2 years.



Applications

Mitochondrial Na⁺/Ca²⁺ exchanger inhibitor

Functions

Inhibits the mitochondrial Na⁺-Ca²⁺ exchanger (NCX) in isolated heart mitochondria, IC₅₀=0.36 μM. Does not inhibit the plasmalemmal NCX. Also inhibits voltage-gated Ca²⁺ channels in intact cells and therefore its use in cellular studies must employ adequate controls. Prevents sudden death in a Guinea pig model of heart failure. Displays pronounced cytoprotective effects in chromaffin cells and in neuronal injury models. Blood-brain barrier permeant.

Application Procedures

First dissolved in DMSO (up to 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.