

Product Name: CGP-37157

Cat. No.: BIAIC-2505-CXX-4

Package: 10 mg/50 mg

Description

Inhibits the mitochondrial Na^+ - Ca^{2+} exchanger (NCX) in heart mitochondria (IC_{50} =0.36 μM) without affecting plasmalemmal NCX. Also inhibits voltage-gated Ca^{2+} channels in intact cells, requiring controls in studies.

Product Details

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

Purity: >98%

CAS Number: 75450-34-9

Formula: $\text{C}_{15}\text{H}_{11}\text{Cl}_2\text{NOS}$

Molecular Weight: 324.22

Appearance: Powder

Solubility: Dissolves in DMSO (up to 25 mg/mL).

Stability: ≥ 2 years

Application Procedures: First, dissolve in DMSO (up to 25 mg/mL), and then dilute it into an aqueous buffer. Solutions in DMSO can be stored at -20°C for up to 3 months.

Storage Information: Room Temperature

Application

Mitochondrial $\text{Na}^+/\text{Ca}^{2+}$ exchanger inhibitor

 For preclinical research and development use only; not intended for therapeutic or other applications.