

BD1063 dihydrochloride, Selective sigma-1 antagonist

Catalog	Unit
TBI4211-5MG	5 mg
TBI4211-25MG	25 mg

Product Details

Formal Name: 1-[2-(3,4-Dichlorophenyl)ethyl]-4-methylpiperazine dihydrochloride

Molecular Formula: C₁₃H₁₈Cl₂N₂·2HCl

Formula Weight: 346.13

CAS Number: 206996-13-6

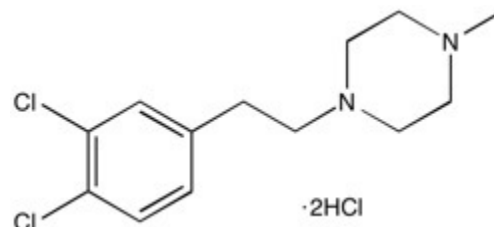
Purity: >98%

Formulation: powder

Solubility: Soluble in Water (up to at least 25 mg/ml)

Storage: -20°C

Stability: ≥ 1 year.



Applications

Selective sigma-1 antagonist

Functions

BD1063 is potent and selective sigma-1 antagonist (IC₅₀'s: sigma1 = 9nM, sigma2 = 449nM). BD1063 abolished mechanical and thermal hyperalgesia in mice with carrageenan-induced acute inflammation by enhancing the action of endogenous opioid peptides of immune origin in a sigma1 dependent manner. BD1063 potentiated μ-opioid antinociception in mice in a sigma-dependent manner. BD-1063 has been used in animal models to successfully treat compulsive eating and excessive ethanol drinking.

Application Procedures

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

For research use only.