

BD1047 dihydrobromide, Selective sigma-1 antagonist

Catalog	Unit
TBI4210-5MG	5 mg
TBI4210-25MG	25 mg

Product Details

Formal Name: N-[2-(3,4 Dichlorophenyl)ethyl]-N-methyl-2-(dimethylamino)ethylamine dihydrobromide

Molecular Formula: C₁₃H₂₀Cl₂N₂·2HBr

Formula Weight: 437.04

CAS Number: 138356-21-5

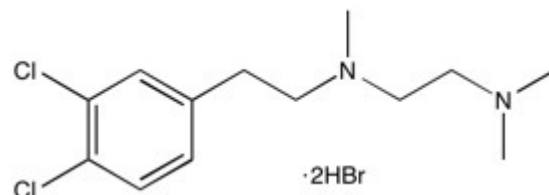
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 20 mg/ml) or in Water (up to 20 mg/ml).

Storage: -20°C

Stability: ≥ 1 year.

**Applications**

Selective sigma-1 antagonist

Functions

BD1047 is a potent and selective sigma-1 antagonist (IC₅₀'s: sigma1 = 0.93nM, sigma2 = 47nM). Pretreatment of mice with BD1047 reduced convulsions, lethality, and locomotor activity induced by cocaine. BD1047 attenuated high fat diet-induced peripheral neuropathy in mice. BD1047 displayed antinociceptive effects in several rodent pain models. It also inhibits the beta-adrenoreceptor (IC₅₀ = 145 nM).

Application Procedures

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

For research use only.