

DATA SHEET

Product Name: BD1047 2HBr

Catalog #: CV-1041

Alt: CAS # 138356-21-5; N-[2-(3,4Dichlorophenyl)ethyl]-N-methyl-2-(dimethylamino)ethylamine, dihydrobromide

Molecular Mass: 437.0

Analysis: >98% (HPLC); NMR (Conforms)

Supplied As: Off-white powder

Resuspension: May be dissolved in DMSO (20 mg/ml); or water (20 mg/ml)

Storage: Store desiccated as supplied at -20°C for up to 2 years. Store solutions at -20°C for up to 3 months.

Description: BD1047 is a potent and selective sigma-1 antagonist (IC_{50} 's: $\sigma_1=0.93$ nM, $\sigma_2=47$ nM)¹. It reduced convulsions, lethality, and locomotor activity induced by cocaine in mouse models². BD1047 attenuated high fat diet-induced peripheral neuropathy in mice³. BD1047 displayed antinociceptive effects in several rodent pain models⁴⁻⁶. It also inhibits the β -adrenergic receptor ($IC_{50}=145$ nM)¹.

References:

1. Matsumoto, R.R., et al., (1995) Eur. J. Pharmacol., 280 : 301
2. McCracken, K., et al., (1999) Eur. J. Pharmacol., 370 : 225
3. Song, T., et al., (2017) Biol. Chem., 398 : 1141
4. Jeong, T.A., et al., (2005) Brain Res. Bull., 119(Pt A) : 93
5. Roh, D.H, and Yoon, S.Y., (2014) Biol. Pharm. Bull., 37 : 145
6. Zhu, S., et al., (2015) Mediators Inflamm., 2015 : 265056

For research use only. Not for use in humans.