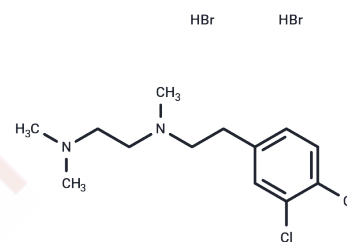


## BD-1047 dihydrobromide

### Chemical Properties

CAS No. :	138356-21-5
Formula:	C <sub>13</sub> H <sub>22</sub> Br <sub>2</sub> Cl <sub>2</sub> N <sub>2</sub>
Molecular Weight:	437.04
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



### Biological Description

Description	BD-1047 dihydrobromide (BD1047.2HBr) , a selective functional antagonist of sigma receptors, has antipsychotic activity in animal models predictive of efficacy in schizophrenia.
Targets(IC50)	Sigma receptor

### Solubility Information

Solubility	DMSO: 50 mg/mL (114.41 mM),Sonication is recommended. H2O: 43.7 mg/mL (99.99 mM),Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.58 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2881 mL	11.4406 mL	22.8812 mL
5 mM	0.4576 mL	2.2881 mL	4.5762 mL
10 mM	0.2288 mL	1.1441 mL	2.2881 mL
50 mM	0.0458 mL	0.2288 mL	0.4576 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Skuza G, et al. Pharmacol Rep. 2006 Sep-Oct;58(5):626-635.

Zhang Z, Zhou H, Gu W, et al. CGI1746 targets  $\sigma$ 1R to modulate ferroptosis through mitochondria-associated membranes. Nature Chemical Biology. 2024: 1-11.

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