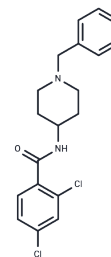


BPDBA

Chemical Properties

CAS No. :	312281-74-6
Formula:	C ₁₉ H ₂₀ Cl ₂ N ₂ O
Molecular Weight:	363.28
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	BPDBA is an effective, selective, and non-competitive inhibitor of the betaine/GABA transporter (BGT-1), displaying inhibitory activity against human BGT-1 and mouse GAT2, with IC ₅₀ values of 20 μM and 35 μM, respectively.
Targets(IC ₅₀)	GABA Receptor

Solubility Information

Solubility	DMSO: 27.5 mg/mL (75.7 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7527 mL	13.7635 mL	27.527 mL
5 mM	0.5505 mL	2.7527 mL	5.5054 mL
10 mM	0.2753 mL	1.3763 mL	2.7527 mL
50 mM	0.0551 mL	0.2753 mL	0.5505 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

- Kragholm B, et al. Discovery of a subtype selective inhibitor of the human betaine/GABA transporter 1 (BGT-1) with a non-competitive pharmacological profile. *Biochem Pharmacol.* 2013;86(4):521-528.
- Jørgensen L, et al. Structure-Activity Relationship, Pharmacological Characterization, and Molecular Modeling of Noncompetitive Inhibitors of the Betaine/γ-Aminobutyric Acid Transporter 1 (BGT1). *J Med Chem.* 2017;60(21):8834-8846.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481