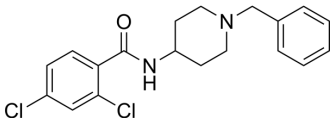
BPDBA

Cat. No.:	HY-119591
CAS No.:	312281-74-6
Molecular Formula:	$C_{19}H_{20}Cl_2N_2O$
Molecular Weight:	363.28
Target:	GABA Receptor
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (275.27 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.7527 mL	13.7635 mL	27.5270 mL
5 mM	0.5505 mL	2.7527 mL	5.5054 mL
10 mM	0.2753 mL	1.3763 mL	2.7527 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

BPDBA is a selective and noncompetitive betaine/GABA transporter (BGT-1) inhibitor with IC_{50}s of 20 μM and 35 μM against human BGT-1 and mouse GAT2, respectively[1].

In Vivo

BPDBA is predicted to have excellent oral absorption and blood brain barrier penetration properties[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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 Aug 15;86(4):521-8.

Caution: Product has not been fully validated for medical applications. For research use only.

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