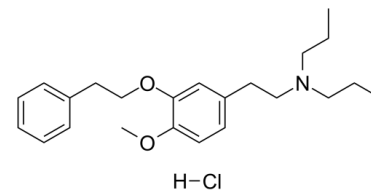


Data Sheet

Product Name:	NE-100 (hydrochloride)
Cat. No.:	CS-0021523
CAS No.:	149409-57-4
Molecular Formula:	C ₂₃ H ₃₄ ClNO ₂
Molecular Weight:	391.97
Target:	Sigma Receptor
Pathway:	Neuronal Signaling
Solubility:	DMSO : 250 mg/mL (637.80 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

NE-100 (hydrochloride) is a potent and selective **sigma-1 receptor** antagonist with an **IC₅₀** of 4.16 nM. NE-100 (hydrochloride) exerts antipsychotic activity in vivo^[1]. NE-100 (hydrochloride) also suppresses ER stress-induced hippocampal cell death^[2].

References:

[1]. Ono Y, et al. A sigma-1 receptor antagonist (NE-100) prevents tunicamycin-induced cell death via GRP78 induction in hippocampal cells. *Biochem Biophys Res Commun.* 2013 May 17;434(4):904-9.

[2]. Okuyama S, et al. NE-100, a novel sigma receptor ligand: in vivo tests. *Life Sci.* 1993;53(18):PL285-90.

CAIndexNames:

Benzeneethanamine, 4-methoxy-3-(2-phenylethoxy)-N,N-dipropyl-, hydrochloride (1:1)

SMILES:

CCCN(CCC)CCC1=CC=C(OC)C(OCCC2=CC=CC=C2)=C1.[H]Cl

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

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