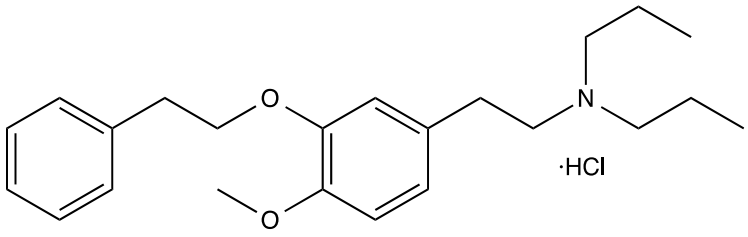
Catalog # 10-4200

NE-100

4-Methoxy-3-(2-phenylethoxy)-N,N,dipropylbenzeneethanamine hydrochloride

149409-57-4

Lot # FBA6131



NE-100 is potent inhibitor of the sigma receptor (σ) with selectivity for sigma-1 (IC_{50} = 1.5 nM) over sigma-2 (IC_{50} = 85 nM).[1,2] NE-100 suppressed ischemia-induced neuronal cell death in mice *via* upregulation of GRP78 through the ATF6 pathway resulting in suppression of ER stress-induced cell death in a sigma-1-independent manner.[3]

1) Okuyama *et al*. (1994), *NE-100, a novel sigma receptor ligand: in vivo tests*; Life Sci. **53** PL285

2) Chaki *et al*. (1994)), *NE-100,a novel potent sigma ligand, preferentially binds to sigma 1 binding sites in guinea pig brain*; Eur.J.Pharmacol. **251** R1

3) Ono *et al.* (2013), *A sigma-1 receptor antaqonist (NE-100) prevents tunicamycin-induced cell death via GRP78 induction in hippocampal cells;* Biochem.Biophys.Res.Commun. **434** 904

PHYSICAL DATA

Molecular Weight:	391.97
Molecular Formula:	$C_{23}H_{33}NO_2 \cdot HCl$
Purity:	>98% by HPLC
	NMR: Conforms
Solubility:	Water (up to 10mg/mL), DMSO (>25 mg/mL)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or water may be stored at -20°C for up to 3 months.

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