

**DATA SHEET**

**Product Name:** NE-100

**Catalog #:** CV-1037

**Alt:** CAS # 149409-57-4; 4-Methoxy-3-(2-phenylethoxy)-N,N-dipropylbenzeneethanamine, hydrochloride

**Molecular Mass:** 391.9

**Analysis:** >98% (HPLC); NMR (conforms)

**Supplied As:** White powder

**Resuspension:** May be dissolved in DMSO (25 mg/ml); or water (10 mg/ml)

**Storage:** Store desiccated as supplied at -20°C for up to 2 years. Store solutions at -20°C for up to 3 months.

**Description:** NE-100 is potent inhibitor of the sigma receptor ( $\sigma$ ) with selectivity for sigma-1 ( $IC_{50}=1.5$  nM) over sigma-2 ( $IC_{50}=85$  nM)<sup>1,2</sup>. 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<sup>3</sup>.

**References:**

1. Okuyama, S., et al., (1994) Life Sci., 53: PL285
2. Chaki, S., et al., (1994) Eur. J. Pharmacol., 251: R1
3. Ono, Y., et al., (2013) Biochem. Biophys. Res. Commun., 434: 904

**For research use only. Not for use in humans.**