

**DATA SHEET**

**Product Name:** PRE-084

**Catalog #:** CV-1039

**Alt:** CAS # 3258-02-4; 2-(4-Morpholinethyl) 1-phenylcyclohexanecarboxylate hydrochloride

**Molecular Mass:** 353.9

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

**Supplied As:** White powder

**Resuspension:** May be dissolved in DMSO (25 mg/ml); or water (7 mg/ml, warm)

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

**Description:** PRE-084 is an agonist of the  $\sigma$  receptor with selectivity for the  $\sigma_1$  subtype ( $IC_{50}$ :  $\sigma_1=2.2$  nM,  $\sigma_2=13091$  nM)<sup>1</sup>. PRE-084 has demonstrated neuroprotective/restorative effects in brain injury<sup>2,3</sup> and neurodegenerative conditions<sup>4-7</sup>.

- References:**
1. Su, T.P., et al., (1991) J. Pharmacol. Exp. Ther., 259 : 543
  2. Griesmaier, E., et al., (2012) Exp. Neurol., 237 : 388
  3. Dong, H., et al., (2016) Cell Mol. Neurobiol., 36 : 639
  4. Guzman-Lenis, M.S., et al., (2009) Neuroscience, 162 : 31
  5. Hyrskyluoto, A., et al., (2013) Cell Death Dis., 4 : e646
  6. Francardo, V., et al., (2014) Brain, 137(Pt 7) : 1998
  7. Mancuso, R., et al., (2012) Neurotherapeutics, 9 : 814

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