

DATA SHEET

Product Name: S1RA

Catalog #: CV-1038

Alt: CAS # 1265917-14-3; 4-{2-[5-Methyl-1-(naphthalen-2-yl)-1H-pyrazol-3-yloxy]ethyl}morpholine, hydrochloride; E-52862 HCl

Molecular Mass: 373.9

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

Supplied As: Off-white powder

Resuspension: May be dissolved in DMSO (25 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: S1RA (E-52862) is a potent and selective σ_1 antagonist with weak binding at σ_2 ($IC_{50} \sigma_1=17$ nM, $\sigma_2=9300$ nM)^{1,2}. S1RA abolished mechanical and thermal hyperalgesia in mice with carrageenan-induced acute inflammation by enhancing the action of endogenous opioid peptides of immune origin in a σ_1 -dependent manner³. S1RA potentiated μ -opioid antinociception in mice in a σ -dependent manner⁴. Also displays neuroprotective effects in a mouse model of ischemic stroke⁵.

References:

1. Romero, L., et al., (2012) Br. J. Pharmacol., 166 : 2289
2. Diaz, J.L., et al., (2012) J. Med. Chem., 55 : 8211
3. Tejada, M.A., et al., (2017) Proc. Natl. Acad. Sci. USA, 114 : 8396
4. Sanchez-Fernandez, C., et al., (2014) J. Pharmacol. Exp. Ther., 348 : 32
5. Sanchez-Blazquez, P., et al., (2018) Mol. Neurobiol., 55 : 4940

For research use only. Not for use in humans.