Product Data Sheet

Product Name: S1RA
CAS No.: 878141-96-9
Cat. No.: HY-18099
MWt: 337.42
Formula: C20H23N3O2
Purity: >98%
Solubility: DMSO

Mechanisms:
Pathways: GPCR; Target: Sigma Receptor

Biological Activity:
S1RA (E-52862) is a potent and selective sigma-1 receptor (σ1R, Ki=17 nM) antagonist, showed good selectivity against σ2R (Ki > 1000 nM).
IC50 value: 17 nM (Ki) [1]
Target: σ1R
in vitro: S1RA behaved as a highly selective σ1 receptor antagonist. It showed high affinity for human (Ki= 17 nM) and guinea pig (Ki= 23.5 nM) σ1 receptors but no significant affinity for the σ2 receptors (Ki > 1000 nM for guinea pig and rat σ2 receptors). Moderate affinity (Ki= 328 nM) and antagonistic activity, with very low potency (IC50= 4700 nM) was found at the human 5-HT2B receptor. S1RA showed no significant affinity (Ki > 1 μM or % inhibition at 1 μM < 50%) for other additional 170 targets (receptors, transporters, ion channels and enzymes) [2].
in vivo: Control (non-operated) and nerve-injured mice received a single or repeated (twice daily for 12 days) i.p. administration of S1RA at ...

References:

Caution: Not fully tested. For research purposes only
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