
Product Data Sheet

Product Name: (+/-)-PPCC oxalate

Cat. No.: GC50048

Chemical Properties

Cas. No. 932736-91-9

SMILES CC(C=C3)=CC=C3[C@@]1(C(OC)=O)C[C@@H]1CN2CCC(C4=CC=CC=C4)(O)CC2.CC(C=C7)=CC=C7[C@]5([C@](OC)=O)C[C@H]5CN6CCC(C8=CC=CC=C8)(O)CC6.O=C(O)C(O)=O.O=C(O)C(O)=O

Formula C₂₄H₂₉NO₃·C₂H₂O₄ M.Wt 469.53

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Selective sigma (σ) receptor ligand. Displays high affinity for σ_1 ; also binds at σ_2 sites ($K_i = 1.5$ nM and 50.8 nM respectively). Selective over a range of receptor types including dopaminergic and muscarinic receptors, DAT and SERT.

Prezzavento et al (2007) Novel sigma receptor ligands: synthesis and biological profile. J.Med.Chem. 50 951 PMID:17328523 |Prezzavento et al (2008) A new sigma ligand, (\pm)-PPCC, antagonizes kappa opioid receptor-mediated antinociceptive effect. Life Sci. 82 549 PMID:18261749 |Antonini et al (2009) Anti-amnesic properties of (\pm)-PPCC, a novel sigma receptor ligand, on cognitive dysfunction induced by selective cholinergic lesion in rats. J.Neurochem. 109 744 PMID:19245662

Caution: Product has not been fully validated for medical applications. For research use only.

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