Product Data Sheet

Product Name: F 11440
CAS No.: 179756-58-2
Cat. No.: HY-19946
MWT: 345.40
Formula: C16H23N7O2
Purity : >98%
Solubility: DMSO: > 6 mg/mL

Mechanisms: Pathways: GPCR/G protein; Target: 5-HT Receptor
Pathways: Neuronal Signaling; Target: 5-HT Receptor

Biological Activity:
F 11440 is a potent, selective, high efficacy 5-HT1A receptor agonist with marked anxiolytic and antidepressant potential.
Target: 5-HT1A
The affinity of F 11440 for 5-HT1Abinding sites (pKi, 8.33) was higher than that of buspirone (pKi, 7.50), and somewhat lower than that of flesinoxan (pKi, 8.91). In vivo, F 11440 was 4- to 20-fold more potent than flesinoxan, and 30- to 60-fold more potent than buspirone, in exerting 5-HT1A agonist activity at pre- and postsynaptic receptors in rats (measured by, for example, its ability to decrease hippocampal extracellular serotonin (5-HT) levels and to increase plasma corticosterone levels, respectively). F 11440, shown here to be a potent, selective, high efficacy 5-HT1A receptor agonist, appears to have the potential to exert marked anxiolytic and antidepressant activity in humans.[1]...

References: