Product Name: Tandospirone

CAS No.: 87760-53-0

Cat. No.: HY-14558

Mwt: 383.49

Formula: C21H29N5O2

Purity: >98%

Solubility: 10 mM in DMSO

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

Pathways: Neuronal Signaling; Target: 5-HT Receptor

Biological Activity:
Tandospirone (SM-3997) is a potent and selective 5-HT1A receptor partial agonist (Ki = 27 nM) that displays selectivity over SR-2, SR-1C, α1, α2, D1 and D2 receptors (Ki values ranging from 1300-41000 nM).

IC50 Value: 27±5 nM(Ki) [1]

Target: 5-HT1A

in vitro: Tandospirone is most potent at the 5-HT1A receptor, displaying a Ki value of 27 +/- 5 nM. The agent is approximately two to three orders of magnitude less potent at 5-HT2, 5-HT1C, alpha 1-adrenergic, alpha 2-adrenergic, and dopamine D1 and D2 receptors (Ki values ranging from 1300 to 41000 nM). Tandospirone is essentially inactive at 5-HT1B receptors; 5-HT uptake sites; beta-adrenergic, muscarinic cholinergic, and benzodiazepine receptors [1]. 3H-SM-3997 bound rapidly, reversibly and in a saturable manner with high affinity to rat brain hippocampal membranes (Kd = 9.4 nM, Bmax = 213 fmol/mg protein) [2].
in viv...

References:

Caution: Not fully tested. For research purposes only

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