Product Name: Blonanserin
CAS No.: 132810-10-7
Cat. No.: HY-13575
M.Wt: 367.50
Formula: C23H30FN3
Purity: >98%
Solubility: DMSO: <3.7 mg/mL, H2O: < 1 mg/mL

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

Biological Activity:
Blonanserin (AD-5423) is a D2/5-HT2 receptor antagonist, atypical antipsychotic.
Target: D2 receptor, 5-HT2 receptor
Blonanserin (AD-5423) is a relatively new atypical antipsychotic for the treatment of schizophrenia.
Blonanserin belongs to a series of 4-phenyl-2-(1-piperazinyl)pyridines and acts as an antagonist at dopamine D2, D3, and serotonin 5-HT2A receptors. Blonanserin has low affinity for 5-HT2C, adrenergic α1, histamine H1, and muscarinic M1 receptors, but displays relatively high affinity for 5-HT6 receptors [1]. AD-5423 bound preferentially to dopamine (DA)-D2 (Ki, 14.8 nM; cf. haloperidol, 8.79 nM; and clozapine, 149 nM) and serotonin (5-HT)-S2 (Ki, 3.98 nM; cf. haloperidol, 26.8 nM; and clozapine, 8.66 nM) receptors. It displayed low affinity for adrenaline (Ad)-alpha-1 (Ki, 56.3 nM) receptors and was virtually devoid of binding to DA-D1 (Ki, 2870 nM), 5-HT...

References:

Caution: Not fully tested. For research purposes only
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