

SX-3228

Catalog No: tcsc0018443



Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg



Specifications

CAS No:

156364-04-4

Formula:

$C_{18}H_{18}N_4O_3$

Pathway:

Neuronal Signaling;Membrane Transporter/Ion Channel

Target:

GABA Receptor;GABA Receptor

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

338.36

Product Description

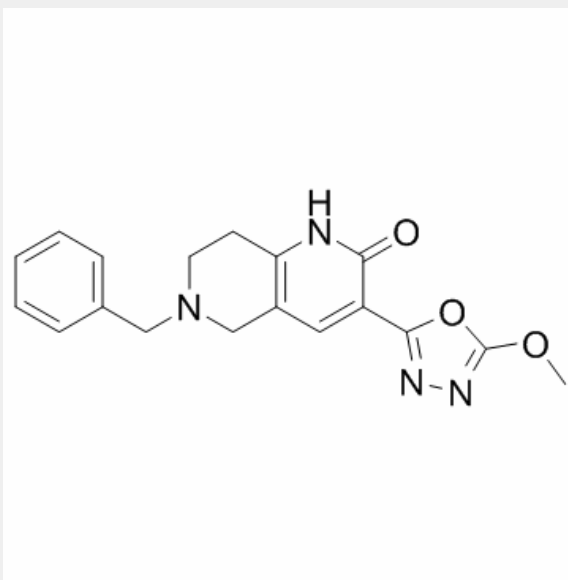
SX-3228 is a selective **benzodiazepine1 (BZ1)** receptor agonist with an **IC₅₀** of 17 nM.

IC50 & Target: IC50: 17 nM (BZ1 receptor)^[1]

In Vitro:

SX-3228 is a selective ligand for the BZ1 receptor. Among the BZ-receptor subtypes, SX-3228 preferentially binds to the BZ1 receptor ($IC_{50}=17$ nM). It has very weak affinity for the BZ2 receptor (spinal cord: $IC_{50}=127$ nM), and virtually no affinity for the peripheral type BZ receptor (kidney: $IC_{50}>10000$ nM). A compound with similar selectivity, SX-3228 has been shown to bind to BZ receptors, but not to dopamine (D_1 , D_2), serotonin (5-HT₁, 5-HT₂ and 5-HT₃ subtypes), noradrenaline (α_1 , α_2 , β), GABA or acetylcholine (muscarinic) subtypes^[1].

In Vivo: Administration of 0.5-2.5 mg/kg SX-3228 to rats during the light phase induces a significant reduction of rapid-eye-movement sleep (REMS) (P[1]).



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