Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

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 **IC_{50}** of 17 nM.

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

In Vitro:

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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-HT_1, 5-HT_2 and 5-HT_3 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].