SJM-3

Cat. No.: HY-131941

CAS No.: 1234977-97-9

Molecular Formula: $C_{18}H_{15}FN_4OS$

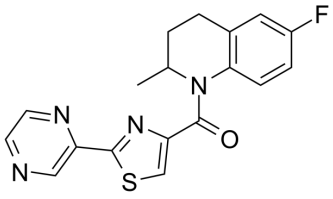
Molecular Weight: 354.4

Target: GABA Receptor

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

Storage:

Powder	-20°C	3 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (28.22 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.8217 mL	14.1084 mL	28.2167 mL
	5 mM	0.5643 mL	2.8217 mL	5.6433 mL
	10 mM	0.2822 mL	1.4108 mL	2.8217 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

SJM-3 is a positive allosteric modulator of different isoforms of the GABAA receptor. SJM-3 binds at the high-affinity benzodiazepine binding site at the α+/γ- subunit interface[1].

IC_{50} & Target

GABAA receptor[1]

In Vitro

SJM-3 binds at the high-affinity benzodiazepine binding site at theα+/γ- subunit interface but effects its action through another site presumably located within the transmembrane domain. The binding affinity of SJM-3 at wild type receptors is determined by displacement of [^{3}H]-Flunitrazepam and [^{3}H]-Ro15-1788 and indicates a K_i of SJM-3 amounting to 218±70 nM and 242±38 nM, respectively[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Simon J Middendorp, et al. Positive modulation of synaptic and extrasynaptic GABAA receptors by an antagonist of the high affinity benzodiazepine binding site.

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