## SRX246

Cat. No.:	HY-105685		
CAS No.:	512784-93-9	Э	
Molecular Formula:	$C_{_{42}}H_{_{49}}N_{_5}O_{_5}$		
Molecular Weight:	703.87		
Target:	Vasopressir	n Recepto	or
Pathway:	GPCR/G Pro	otein	
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

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## SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	1 mM	1.4207 mL	7.1036 mL	14.2072 mL	
		5 mM	0.2841 mL	1.4207 mL	2.8414 mL	
		10 mM	0.1421 mL	0.7104 mL	1.4207 mL	
	Please refer to the so	Please refer to the solubility information to select the appropriate solvent.				
Solub 2. Add e		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (3.55 mM); Clear solution				
		2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (3.55 mM); Clear solution				

BIOLOGICAL ACTIV	ИТҮ
Description	SRX246 is a potent, CNS-penetrant, highly selective, orally bioavailable vasopressin 1a (V1a) receptor antagonist (K <sub>i</sub> =0.3 nM for human V1a). SRX246 has no interaction at V1b and V2 receptors. SRX246 also displays negligible binding at 64 others receptors classes, including 35 G-proteincoupled receptors. SRX246 can be used for treatment of stress-related disorders <sup>[1]</sup> .
IC <sub>50</sub> & Target	Ki: 0.3 nM (human vasopressin 1a receptor) <sup>[1]</sup>
In Vivo	SRX246 (2 mg/kg; i.v.) treatment shows that the C <sub>max</sub> , AUC <sub>0-∞</sub> and t <sub>1/2</sub> values are 953 ng/mL, 1141 ng ⊠h/mL, and 6.02 hours, respectively, in plasma pharmacokinetics. Following an oral administration (dose 20 mg/kg), The C <sub>max</sub> , AUC <sub>0-∞</sub> and t <sub>1/2</sub> values are 98.4 ng/mL, 624 ng ⊠h/mL and 2.38 hours, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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Animal Model:	Male Sprague-Dawley rats <sup>[1]</sup>
Dosage:	2 mg/kg (20 mg/kg for p.o.)
Administration:	i.v. (Pharmacokinetic Analysis)
Result:	Following i.v. administration, the plasma concentration declined steadily with a half-life ( $_{1/2}$ ) of 6 hours. The C <sub>max</sub> and AUC <sub>0-∞</sub> values are 953 ng/mL, 1141 ng $\square$ h/mL, 6.02 hours. Following an oral administration, the C <sub>max</sub> , AUC <sub>0-∞</sub> and t <sub>1/2</sub> values 98.4 ng/mL, 624 ng $\square$ h/mL and 2.38 hours, respectively.

## REFERENCES

[1]. Guillon CD, et al. Azetidinones as vasopressin V1a antagonists. Bioorg Med Chem. 2007 Mar 1;15(5):2054-80.

[2]. Fabio KM, et al. Pharmacokinetics and metabolism of SRX246: a potent and selective vasopressin 1a antagonist. J Pharm Sci. 2013 Jun;102(6):2033-2043.

Caution: Product has not been fully validated for medical applications. For research use only.

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