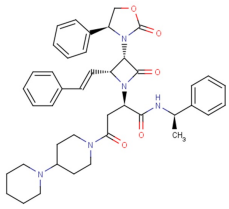
# Data Sheet (Cat.No.T16934)

TargetMol
A DRUG SCREENING EXPERT

SRX246

## Chemical Properties



| | |
|---|---|
| CAS No.: | 512784-93-9 |
| Formula: | C42H49N5O5 |
| Molecular Weight: | 703.87 |
| Appearance: | N/A |
| Storage: | 0-4℃ for short term (days to weeks), or -20℃ for long term (months). |

## Biological Description

| | |
|---|---|
| Description | SRX246 has no interaction at V1b and V2 receptors. SRX246 shows negligible binding at 64 other receptors classes, including 35 G-proteincoupled receptors. SRX246 is a potent and CNS-penetrant vasopressin 1a (V1a) receptor antagonist (Ki=0.3 nM for human V1a). |
| Targets($IC_{50}$) | human vasopressin 1a receptor: (ki) 0.3 nM |
| In vivo | SRX246 (2 mg/kg; i.v.) treatment shows that the Cmax, AUC0-∞ and t1/2 values are 953 ng/mL, 1141 ng •h/mL, and 6.02 hours, respectively, in plasma pharmacokinetics. SRX246 (20 mg/kg; p.o.) administration display that the Cmax, AUC0-∞ and t1/2 values are 98.4 ng/mL, 624 ng •h/mL and 2.38 hours, respectively [1]. |

## Solubility Information

| | |
|---|---|
| Solubility | < 1 mg/ml refers to the product slightly soluble or insoluble |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 1.421 mL | 7.104 mL | 14.207 mL |
| 5 mM | 0.284 mL | 1.421 mL | 2.841 mL |
| 10 mM | 0.142 mL | 0.71 mL | 1.421 mL |
| 50 mM | 0.028 mL | 0.142 mL | 0.284 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

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.

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