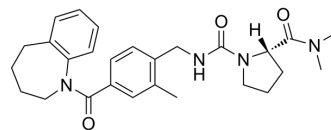


## Fedovapagon

Cat. No.:	HY-14887
CAS No.:	347887-36-9
Molecular Formula:	C <sub>27</sub> H <sub>34</sub> N <sub>4</sub> O <sub>3</sub>
Molecular Weight:	462.58
Target:	Vasopressin Receptor
Pathway:	GPCR/G Protein
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 125 mg/mL (270.22 mM) * "≥" means soluble, but saturation unknown.						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.1618 mL	10.8089 mL	21.6179 mL
				5 mM	0.4324 mL	2.1618 mL	4.3236 mL
				10 mM	0.2162 mL	1.0809 mL	2.1618 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.50 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.50 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.50 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	Fedovapagon (VA106483) is a selective and orally active vasopressin V2 receptor (V2R) agonist with an EC <sub>50</sub> of 24 nM. Fedovapagon can be used in the research of nocturia <sup>[1]</sup> .	
IC <sub>50</sub> & Target	V2 Receptor	V2 Receptor 24 nM (EC50)
In Vivo	Fedovapagon (1 mg/kg, oral administration) inhibits urine output with 81% inhibition rate in rats <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

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Animal Model:	Brattleboro rats <sup>[1]</sup>
Dosage:	1 mg/kg, 3 mg/kg
Administration:	Oral administration
Result:	Reduced urine volume with almost full inhibition of urine output for 2 h. Returned the urine to normal levels 5 h after dosing.

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## REFERENCES

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[1]. Yea CM, et al. New benzylureas as a novel series of potent, nonpeptidic vasopressin V2 receptor agonists. J Med Chem. 2008 Dec 25;51(24):8124-34.

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

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