

OPC-28326

## Chemical Properties

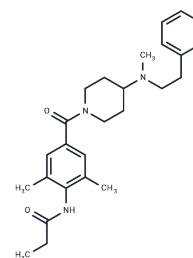
CAS No. : 167626-17-7

Formula: C<sub>26</sub>H<sub>35</sub>N<sub>3</sub>O<sub>2</sub>

Molecular Weight: 421.58

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	OPC-28326 is a specific an $\alpha$ 2-adrenergic receptor antagonist and acts as a peripheral vasodilator. OPC-28326 inhibits $\alpha$ 2A-, $\alpha$ 2B- and $\alpha$ 2C-adrenoceptors with $K_i$ of 2040, 285, and 55nM, respectively.
Targets(IC50)	Adrenergic Receptor
In vitro	OPC-28326 augments microvessel growth and improves endothelial tube formation. OPC-28326 dose-dependently induces phosphorylation of eNOS and Akt without affecting total amounts of eNOS and Akt in HAECs[1].
In vivo	OPC-28326 improves blood flow recovery in murine hindlimb ischemia and increases the number of capillaries in the ischemic leg[1]. In rats, intravenous administration of OPC-28326 (3 - 30 mg/kg) and yohimbine (0.3 - 3 mg/kg) results in a dose-dependent rightward shift in the pressor dose-response curve induced by B-HT 920 without affecting the mydriasis[2].

## Solubility Information

Solubility	DMSO: 4.22 mg/mL (10.01 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.372 mL	11.8601 mL	23.7203 mL
5 mM	0.4744 mL	2.372 mL	4.7441 mL
10 mM	0.2372 mL	1.186 mL	2.372 mL
50 mM	0.0474 mL	0.2372 mL	0.4744 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

- Sumi M, et al. OPC-28326, a selective femoral arterial vasodilator, augments ischemia induced angiogenesis. *Biomed Pharmacother.* 2007 May;61(4):209-15. Epub 2006 Dec 28.
- Orito K, et al. alpha(2)-adrenoceptor antagonist properties of OPC-28326, a novel selective peripheral vasodilator. *Br J Pharmacol.* 2001 Oct;134(4):763-70.

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