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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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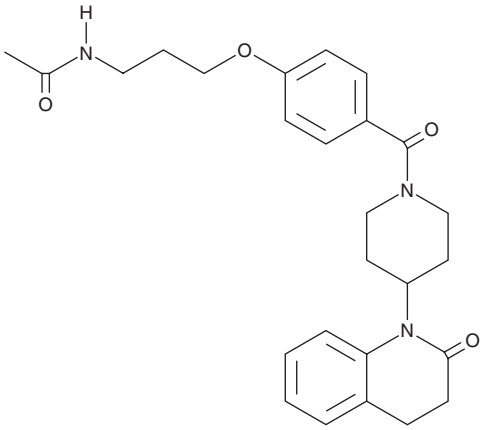
PRODUCT INFORMATION

OPC 21268

Item No. 27226



CAS Registry No.:	131631-89-5
Formal Name:	N-[3-[4-[[4-(3,4-dihydro-2-oxo-1(2H)-quinolinyl)-1-piperidinyl] carbonyl]phenoxy]propyl]-acetamide
MF:	$C_{26}H_{31}N_3O_4$
FW:	449.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 249 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

OPC 21268 is supplied as a solid. A stock solution may be made by dissolving the OPC 21268 in the solvent of choice, which should be purged with an inert gas. OPC 21268 is soluble in the organic solvent DMSO at a concentration of approximately 200 µg/ml. OPC 21268 is also slightly soluble in ethanol.

Description

OPC 21268 is a nonpeptide antagonist of vasopressin V_1 receptors (IC_{50} = 0.4 µM in rat liver membranes).[1] It is selective for V_1 over V_2 receptors (IC_{50} = >100 µM in kidney membranes). It is also selective for rat over human V_1 receptors (K_is = 25 and 8,800 nM, respectively), which can be partially attributed to the alanine residue at position 337 of the rat sequence, instead of a glycine residue in the human sequence, with differences at positions 224, 310, and 324 also contributing. OPC 21268 (0.03-1 mg/kg, i.v.) inhibits pressor responses induced by arginine vasopressin (argipressin; Item No. 24154) in pithed rats and arginine vasopressin-induced vasoconstriction in conscious rats (ID_{50} = 2 mg/kg).[2] It induces hypotension in aged spontaneously hypertensive rats (SHRs) and stroke-prone SHRs when administered at a dose of 3 mg/kg.[3]

References

1. Thibonnier, M., Coles, P., Conarty, D.M., *et al.* A molecular model of agonist and nonpeptide antagonist binding to the human V_1 vascular vasopressin receptor. *J. Pharmacol. Exp. Ther.* **4(1)**, 195-203 (2000).
2. Yamamura, Y., Ogawa, H., Chihara, T., *et al.* OPC-21268, an orally effective, nonpeptide vasopressin V_1 receptor antagonist. *Science* **252(5005)**, 572-574 (1991).
3. Yamada, Y., Yamamura, Y., Chihara, T., *et al.* OPC-21268, a vasopressin V_1 antagonist, produces hypotension in spontaneously hypertensive rats. *Hypertension* **23(2)**, 200-204 (1994).

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