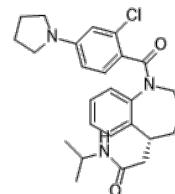


Product Name : OPC-51803
Cat. No. : PC-27932
CAS No. : 192514-54-8
Molecular Formula : C₂₆H₃₂ClN₃O₂
Molecular Weight : 454.01
Target : Vasopressin Receptor
Solubility : 10 mM in DMSO



Biological Activity

OPC-51803 (OPC 51803, OPC51803) is a potent, selective, nonpeptide **vasopressin V(2) receptor (V2R)** agonist, displaced [3H]-AVP binding to human V2R with K_i of 91.9 nM, 9-fold selective over V1aR.

OPC-51803 concentration-dependently increased cyclic adenosine 3', 5'-monophosphate (cyclic AMP) production in HeLa cells expressing human V2-receptors with an EC₅₀ of 189 nM, does not increase the intracellular Ca²⁺ concentration ([Ca²⁺]_i) in HeLa cells expressing human V1a-receptors.

OPC-51803 is the first nonpeptide agonist for human AVP V2-receptors without agonistic activities for V1a- and V1b-receptors.

References

Nakamura S, et al. *Br J Pharmacol*. 2000 Apr;129(8):1700-6.

Nakamura S, et al. *J Pharmacol Exp Ther*. 2000 Dec;295(3):1005-11.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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