



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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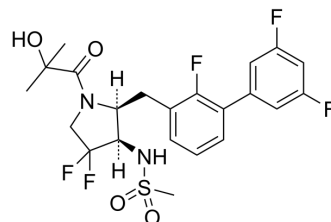
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## OX-201

Cat. No.:	HY-162712
CAS No.:	2460722-03-4
Molecular Formula:	C <sub>22</sub> H <sub>23</sub> F <sub>5</sub> N <sub>2</sub> O <sub>4</sub> S
Molecular Weight:	506.49
Target:	Orexin Receptor (OX Receptor)
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	<p>OX-201 is a selective agonist for OX<sub>2</sub>R with an EC<sub>50</sub> of 8 nM. Pathological proteins produced by neurons are released into the interstitial fluid (ISF) in a manner dependent on neuronal activity and are cleared from the brain via lymphatic pathways. The outflow of pathological proteins to the ISF is related to the arousal state of neurons. OX-201 can induce neuronal awakening and promote the release of tau into the hippocampal ISF. Although OX-201 does not alter hippocampal tau levels, it has potential applications for Alzheimer's disease (AD) associated with sleep/wake rhythm disturbances<sup>[1]</sup>.</p>	
<b>IC<sub>50</sub> &amp; Target</b>	<p>OX<sub>2</sub> Receptor 8 nM (EC<sub>50</sub>)</p>	<p>OX<sub>1</sub> Receptor 8.1 μM (EC<sub>50</sub>)</p>

### REFERENCES

[1]. Terada M, et al. Effects of an OX<sub>2</sub>R agonist on migration and removal of tau from mouse brain. *Sci Rep.* 2024 Jul 10;14(1):15964.

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

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