

**FUJIFILM****Wako**

Code No. 259-00691 (5mg)

**YNT-1310 Disulfate Hydrate**  
**YNT-1310 二硫酸塩水和物**  
**(YNT-1310·2H<sub>2</sub>SO<sub>4</sub>)**

YNT-1310·2H<sub>2</sub>SO<sub>4</sub> is a non-peptide orexin receptor 1 (OX<sub>1</sub>R) selective antagonist. Orexin is a neuropeptide that mainly regulates the sleep/wake cycle. Furthermore, orexin is thought to be involved in eating and energy production. There are two types of orexin receptors, OX<sub>1</sub>R and OX<sub>2</sub>R. OX<sub>1</sub>R was reported to regulate reward-related behaviors.

YNT-1310·2H<sub>2</sub>SO<sub>4</sub> has almost no activity for OX<sub>2</sub>R, but has high OX<sub>1</sub>R selectivity. It can be used as an effective compound to study the orexin system.

Appearance : White to pale brown, crystalline powder to powder

Solubility : Soluble in saline (10 mg/50 μL)<sup>1)</sup>

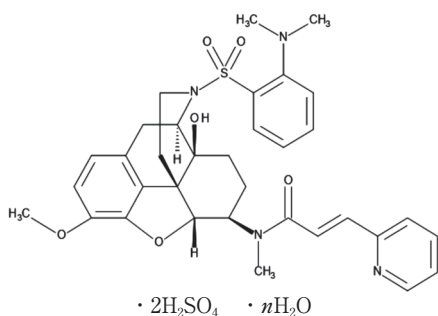
Ki : OX<sub>1</sub>R 1.36 nmol/L (free bases)<sup>1)</sup>

OX<sub>2</sub>R Not active (free bases)<sup>1)</sup>

Molecular formula : C<sub>34</sub>H<sub>38</sub>N<sub>4</sub>O<sub>6</sub>S · 2H<sub>2</sub>SO<sub>4</sub> · nH<sub>2</sub>O

Molecular weight : 826.91 (anhydrate)

Structure :

**[Storage]**

Store in the dark at -20°C, under argon gas.

**[Package]**

5 mg

**[Reference]**

1) Nagase, H., Yamamoto, N., Yata, M., Ohru, S., Okada, T., Saitoh, T., Kutsumura, N., Nagumo, Y., Irukayama-Tomobe, Y., Ishikawa, Y., Ogawa, Y., Hirayama, S., Kuroda, D., Watanabe, Y., Gouda, H. and Yanagisawa, M. : *J. Med. Chem.*, **60**, 1018 (2017).

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