



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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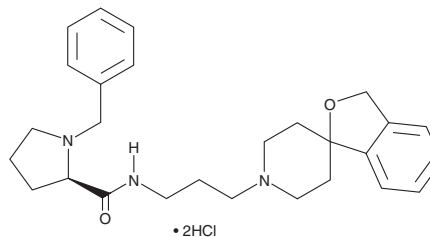
# PRODUCT INFORMATION



## BAN ORL 24 (hydrochloride)

Item No. 29485

**CAS Registry No.:** 1401463-54-4  
**Formal Name:** 1-(phenylmethyl)-N-[3-(spiro[isobenzofuran-1(3H),4'-piperidin]-1'-yl)propyl]-2-pyrrolidinecarboxamide, dihydrochloride  
**MF:** C<sub>27</sub>H<sub>35</sub>N<sub>3</sub>O<sub>2</sub> • 2HCl  
**FW:** 506.5  
**Purity:** ≥95%  
**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

BAN ORL 24 (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the BAN ORL 24 (hydrochloride) in the solvent of choice. BAN ORL 24 (hydrochloride) is soluble in the organic solvent DMSO, which should be purged with an inert gas. It is also soluble in water. We do not recommend storing the aqueous solution for more than one day.

### Description

BAN ORL 24 is an antagonist of the nociceptin (NOP) receptor ( $K_i = 0.24$  nM in a radioligand binding assay using CHO cell membranes expressing the human receptor).<sup>1</sup> It is selective for NOP receptors over  $\mu$ -,  $\delta$ -, and  $\kappa$ -opioid receptors ( $K_i$ s = 0.19, 0.34, and  $>1$   $\mu$ M, respectively). BAN ORL 24 reduces NOP-induced GTP $\gamma$ S binding ( $pA_2 = 9.98$ ) and calcium mobilization ( $K_B = 0.93$  nM) in CHO cells. It inhibits electrically induced twitches in isolated mouse and rat vas deferens, as well as isolated guinea pig ileum, when used at a concentration of 100 nM. BAN ORL 24 (10 mg/kg) reverses thermal and mechanical antinociceptive activities induced by the dual agonist of  $\mu$ -opioid and NOP receptors BPR1M97 in mice.<sup>2</sup>

### References

1. Fischetti, C., Camarda, V., Rizzi, A., *et al.* Pharmacological characterization of the nociceptin/orphanin FQ receptor non peptide antagonist Compound 24. *Eur. J. Pharmacol.* **614**(1-3), 50-57 (2009).
2. Chao, P.-K., Chang, H.-F., Chang, W.-T., *et al.* BPR1M97, a dual mu opioid receptor/nociceptin-orphanin FQ peptide receptor agonist, produces potent antinociceptive effects with safer properties than morphine. *Neuropharmacology* **166**, 107678 (2020).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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