



# 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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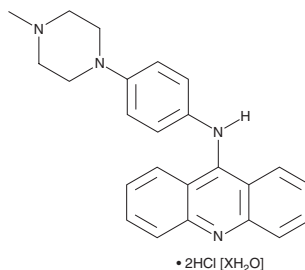
# PRODUCT INFORMATION



## JP-1302 (hydrochloride hydrate)

Item No. 25974

**Formal Name:** N-[4-(4-methyl-1-piperazinyl)phenyl]-9-acridinamine, dihydrochloride, hydrate  
**MF:** C<sub>24</sub>H<sub>24</sub>N<sub>4</sub> • 2HCl [XH<sub>2</sub>O]  
**FW:** 441.4  
**Purity:** ≥98%  
**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

JP-1302 (hydrochloride hydrate) is supplied as a solid. A stock solution may be made by dissolving the JP-1302 (hydrochloride hydrate) in the solvent of choice, which should be purged with an inert gas. JP-1302 (hydrochloride hydrate) is soluble in the organic solvent DMSO. It is also soluble in water. We do not recommend storing the aqueous solution for more than one day.

### Description

JP-1302 is an antagonist of  $\alpha_2$ -adrenergic receptors ( $\alpha_2$ -ARs) that is selective for  $\alpha_{2C}$ -ARs over  $\alpha_{2A}$ - and  $\alpha_{2B}$ -ARs ( $K_{iS}$  = 28, 3,150, and 1,470 nM, respectively).<sup>1</sup> It reduces immobility time in the forced swim test in mice when administered at doses of 1, 3, and 10  $\mu$ mol/kg. JP-1302 (5 mg/kg) reverses phencyclidine-induced decreases in prepulse inhibition of the acoustic startle response in rats. It dose-dependently reduces haloperidol-induced bradykinesia and catalepsy in mice.<sup>2</sup> JP-1302 (0.3 mg/kg) also increases systolic blood pressure in rats.<sup>3</sup>

### References

1. Sallinen, J., Höglund, I., Engström, M., *et al.* Pharmacological characterization and CNS effects of a novel highly selective  $\alpha_{2C}$ -adrenoceptor antagonist JP-1302. *Br. J. Pharmacol.* **150(4)**, 391-402 (2007).
2. Imaki, J., Mae, Y., Shimizu, S., *et al.* Therapeutic potential of  $\alpha_2$  adrenoceptor antagonism for antipsychotic-induced extrapyramidal motor disorders. *Neurosci. Lett.* **454(2)**, 143-147 (2009).
3. Zefirov, T.L., Khisamieva, L.I., Ziyatdinova, N.I., *et al.* Effect of selective blockade of  $\alpha_2$ -adrenoceptor subtypes on cardiovascular system in rats. *Bull. Exp. Biol. Med.* **158(4)**, 410-412 (2015).

#### 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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