



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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- Trockeneiszuschlag
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- Expressversand

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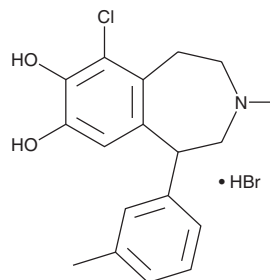
# PRODUCT INFORMATION



## SKF 83959 (hydrobromide)

Item No. 22220

**CAS Registry No.:** 67287-95-0  
**Formal Name:** 6-chloro-2,3,4,5-tetrahydro-3-methyl-1-(3-methylphenyl)-1H-3-benzazepine-7,8-diol, monohydrobromide  
**MF:** C<sub>18</sub>H<sub>20</sub>ClNO<sub>2</sub> • HBr  
**FW:** 398.7  
**Purity:** ≥98%  
**Supplied as:** A crystalline 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

SKF 83959 (hydrobromide) is supplied as a crystalline solid. A stock solution may be made by dissolving the SKF 83959 (hydrobromide) in the solvent of choice. SKF 83959 (hydrobromide) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of SKF 83959 (hydrobromide) in ethanol is approximately 2 mg/ml and approximately 20 mg/ml in DMSO and DMF.

SKF 83959 (hydrobromide) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, SKF 83959 (hydrobromide) should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. SKF 83959 (hydrobromide) has a solubility of approximately 0.04 mg/ml in a 1:20 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

SKF 83959 is a partial agonist at the dopamine D<sub>1</sub>-like receptors (K<sub>i</sub>s = 1.18 and 7.56 nM, respectively, for D<sub>1</sub> and D<sub>5</sub>) that is selective over the D<sub>2</sub>-like receptors (K<sub>i</sub>s = 920 and 399 nM, respectively, for D<sub>2</sub> and D<sub>3</sub>).<sup>1,2</sup> It is protective against oxidative stress in retinal ganglion cells after hydrogen peroxide-induced injury *in vitro*.<sup>3</sup> In a rat methylazoxymethanol acetate (MAM) model of schizophrenia, it had positive effects on hippocampal function, determined using electrophysiology, but impaired spatial learning.<sup>4</sup> SKF 83959 can also act as an allosteric modulator of the sigma-1 (σ<sub>1</sub>) receptor by enhancing the binding to and delaying the dissociation of the selective σ<sub>1</sub>-receptor agonist pentazocine.<sup>5</sup>

### References

1. Neumeyer, J.L., Kula, N.S., Bergman, J., et al. *Eur. J. Pharmacol.* **474(2-3)**, 137-140 (2003).
2. Lee, S.-M., Kant, A., Blake, D., et al. *C. Neuropharmacology* **86**, 145-154 (2014).
3. Li, G.-Y., Li, T., Fan, B., et al. *Mol. Vis.* **18**, 2882-2895 (2012).
4. Perreault, M.L., Fan, T., Banasikowski, T.J., et al. *Eur. J. Neurosci.* (2017).
5. Guo, L., Zhao, J., Jin, G., et al. *Mol. Pharmacol.* **83(3)**, 577-586 (2013).

#### 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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