



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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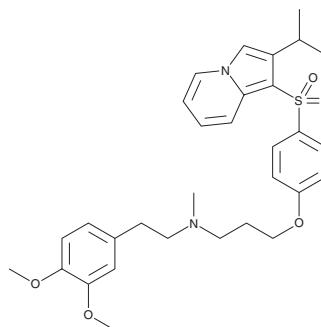
# PRODUCT INFORMATION



## Fantofarone

Item No. 26381

**CAS Registry No.:** 114432-13-2  
**Formal Name:** 3,4-dimethoxy-N-methyl-N-[3-[4-[[2-(1-methylethyl)-1-indoliziny]sulfonyl]phenoxy]propyl]-benzeneethanamine  
**Synonym:** SR 33557  
**MF:** C<sub>31</sub>H<sub>38</sub>N<sub>2</sub>O<sub>5</sub>S  
**FW:** 550.7  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 233, 304 nm  
**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

Fantofarone is supplied as a crystalline solid. A stock solution may be made by dissolving the fantofarone in the solvent of choice. Fantofarone is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of fantofarone in these solvents is approximately 10 mg/ml.

### Description

Fantofarone is a calcium channel inhibitor.<sup>1</sup> It selectively inhibits the L-type voltage-gated calcium channel in isolated rat aorta (IC<sub>50</sub> = 0.61 nM) over α<sub>1</sub>- and β-adrenergic, muscarinic, and histamine H<sub>2</sub> receptors in rat heart homogenates (IC<sub>50</sub>s = >10, >10, 4, and >10 μM, respectively), and the serotonin receptor subtypes 5-HT<sub>1</sub> and 5-HT<sub>2</sub>, as well as histamine H<sub>1</sub> and adenosine A<sub>1</sub> receptors, in rat brain homogenates (IC<sub>50</sub>s = >10, 4, >10, and >10 μM, respectively). Fantofarone inhibits peak calcium current in depolarized and hyperpolarized L-type voltage-gated calcium channels (IC<sub>50</sub>s = 1.4 and 150 nM, respectively).<sup>2</sup> It inhibits potassium chloride- and norepinephrine-induced contractions in isolated rat aorta (IC<sub>50</sub>s = 5.64 and 96 nM, respectively).<sup>1</sup> It enhances recovery of cardiac output during reperfusion of isolated rat hearts when used at a concentration of 10 nM.<sup>3</sup> Fantofarone prevents angioplasty-induced vasospasms in the femoral artery in a rabbit model of focal atherosclerosis when administered at a dose of 50 μg/kg.<sup>4</sup>

### References

1. Nokin, P., Clinet, M., Polster, P., *et al.* SR 33557, a novel calcium-antagonist: Interaction with [<sup>3</sup>H]-(+)-nitrendipine and [<sup>3</sup>H]-(-)-desmethoxy-verapamil binding sites in cerebral membranes. *Naunyn Schmiedebergs Arch. Pharmacol.* **339(1-2)**, 31-36 (1989).
2. Romey, G., Bois, P., and Lazdunski, M. Effects of two chemically related new Ca<sup>2+</sup> channel antagonists, SR33557 (fantofarone) and SR33805, on the L-type cardiac channel. *Eur. J. Pharmacol.* **263(1-2)**, 101-105 (1994).
3. Manning, A., Mouton, J., and Chatelain, P. Fantofarone (SR 33557): Effect on post-ischaemic functional recovery in perfused rat hearts. *Eur. J. Pharmacol.* **220(2-3)**, 249-258 (1992).
4. Dongay, B., Dol-Gleizes, F., and Herbert, J.M. Effect of fantofarone, a new Ca<sup>2+</sup> channel antagonist, on angioplasty-induced vasospasm in an atherosclerotic rabbit model. *Biochem. Pharmacol.* **55(12)**, 2047-2050 (1998).

#### 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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