



# SZABO SCANDIC

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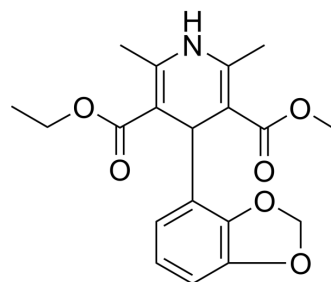
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## Oxodipine

Cat. No.:	HY-106761
CAS No.:	90729-41-2
Molecular Formula:	C <sub>19</sub> H <sub>21</sub> NO <sub>6</sub>
Molecular Weight:	359.37
Target:	Calcium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Oxodipine, a dihydropyridine-type calcium antagonist, inhibits KCl-induced aortic contraction in rabbits and reduces cardiac force in less potent rat ventricular test-paper contractions. In rat cultured neonatal ventricular myocytes, Oxodipine reduces L-type Ca currents (I) with an IC<sub>50</sub> of 0.24 μM, and against T-type Ca currents (I) with an IC<sub>50</sub> of 0.41 μM. Oxodipine causes constipation in mice and gingival hyperplasia in dogs<sup>[1][2][3][4][5][6]</sup>.

### REFERENCES

- [1]. Nyska A, et al. Gingival hyperplasia in rats induced by oxodipine-a calcium channel blocker[J]. Journal of Periodontal Research, 1990, 25(2): 65-68.
- [2]. Tamargo J, et al. Effects of oxodipine on 45Ca movements and contractile responses in vascular smooth muscle[J]. British journal of pharmacology, 1989, 97(2): 339.
- [3]. Galán L, et al. Characteristics of Ca<sup>2+</sup> channel blockade by oxodipine and elgodipine in rat cardiomyocytes[J]. European journal of pharmacology, 1998, 357(1): 93-105.
- [4]. Egros F, et al. An original intragastric delivery system for oral administration of solid formulations to fully conscious rats: its application to oxodipine studies[J]. European Journal of Drug Metabolism and Pharmacokinetics, 1991: 71-76.
- [5]. Montastruc P, et al. Effect of oxodipine, a novel dihydropyridine calcium channel blocker, in neurogenic hypertensive dogs[J]. Archives internationales de pharmacodynamie et de thérapie, 1993, 321: 57-62.
- [6]. Tejerina T, et al. Effects of oxodipine on isolated rabbit aorta and mesenteric resistance vessels[J]. European journal of pharmacology, 1992, 219(2): 279-284.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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