



# 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

### SZABO-SCANDIC HandelsgmbH

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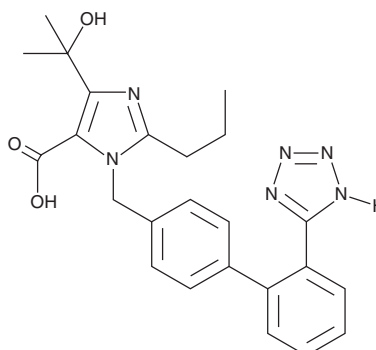
# PRODUCT INFORMATION



## Olmesartan

Item No. 23412

**CAS Registry No.:** 144689-24-7  
**Formal Name:** 4-(1-hydroxy-1-methylethyl)-2-propyl-1-[[2'-(2H-tetrazol-5-yl)[1,1'-biphenyl]-4-yl]methyl]-1H-imidazole-5-carboxylic acid  
**Synonyms:** CS 088, RNH 6270  
**MF:** C<sub>24</sub>H<sub>26</sub>N<sub>6</sub>O<sub>3</sub>  
**FW:** 446.5  
**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

Olmesartan is supplied as a crystalline solid. A stock solution may be made by dissolving the olmesartan in the solvent of choice, which should be purged with an inert gas. Olmesartan is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of olmesartan in these solvents is approximately 0.2, 20, and 30 mg/ml, respectively.

Olmesartan is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, olmesartan should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Olmesartan has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

Olmesartan is a non-peptide angiotensin II receptor 1 (AT<sub>1</sub>) antagonist (IC<sub>50</sub> = 0.0077 μM for the bovine adrenal cortex receptor) and an active metabolite of olmesartan medoxomil (Item No. 11614).<sup>1</sup> It is formed from olmesartan medoxomil by paraoxonase 1 (PON1) in human plasma.<sup>2</sup> Olmesartan is selective for AT<sub>1</sub> over AT<sub>2</sub> (IC<sub>50</sub> = >100 μM for the bovine cerebellar receptor). It reduces contraction of isolated guinea pig aorta induced by angiotensin II (Item No. 17150; pD<sub>2</sub> = 9.9) but not phenylephrine (Item Nos. 17205 | 18619) or potassium chloride. Olmesartan (0.01 and 0.03 mg/kg, i.v.) reduces the angiotensin II-induced pressor response in conscious normotensive rats.

### References

1. Mizuno, M., Sada, T., Ikeda, M., *et al.* Pharmacology of CS-866, a novel nonpeptide angiotensin II receptor antagonist. *Eur. J. Pharmacol.* **285**(2), 181-188 (1995).
2. Ishizuka, T., Fujimori, I., Nishida, A., *et al.* Paraoxonase 1 as a major bioactivating hydrolase for olmesartan medoxomil in human blood circulation: Molecular identification and contribution to plasma metabolism. *Drug Metab. Dispos.* **40**(2), 374-380 (2012).

#### 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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