



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

PRODUCT INFORMATION



Ramipril

Item No. 15558

CAS Registry No.: 87333-19-5

Formal Name: (2S,3aS,6aS)-1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)-3-phenylpropyl]amino]-1-oxopropyl]octahydro-cyclopenta[b]pyrrole-2-carboxylic acid

Synonym: HOE 498

MF: $C_{23}H_{32}N_2O_5$

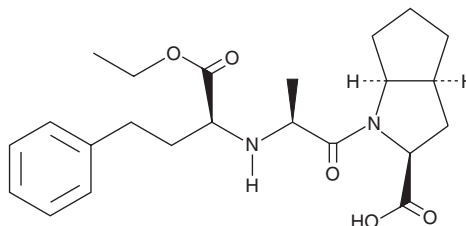
FW: 416.5

Purity: $\geq 98\%$

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

Ramipril is supplied as a crystalline solid. A stock solution may be made by dissolving the ramipril in the solvent of choice. Ramipril is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of ramipril in ethanol is approximately 25 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of ramipril can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of ramipril in PBS, pH 7.2, is approximately 0.2 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Ramipril is a prodrug form of the angiotensin-converting enzyme (ACE) inhibitor ramiprilat (Item No. 15557).¹ Ramipril (2.5 mg/kg per day, p.o.) reduces systolic blood pressure in spontaneously hypertensive rats.² It reduces aortic valve backscatter and improves aortic flow in a rabbit model of aortic valve stenosis.³ Ramipril also decreases paw swelling and serum levels of TNF- α and prostaglandin E_2 (PGE_2) as well as cardiac collagen deposition and fibrosis in a rat model of adjuvant-induced arthritis.⁴

References

1. Leung, D., Abbenante, G., and Fairlie, D.P. Protease inhibitors: Current status and future prospects. *J. Med. Chem.* **43**(3), 305-341 (2000).
2. Cachofeiro, V., Maeso, R., Rodrigo, E., *et al.* Nitric oxide and prostaglandins in the prolonged effects of losartan and ramipril in hypertension. *Hypertension* **26**(2), 236-243 (1995).
3. Ngo, D.T., Stafford, I., Sverdlow, A.L., *et al.* Ramipril retards development of aortic valve stenosis in a rabbit model: Mechanistic considerations. *Br. J. Pharmacol.* **162**(3), 722-732 (2011).
4. Shi, Q., Abusarah, J., Baroudi, G., *et al.* Ramipril attenuates lipid peroxidation and cardiac fibrosis in an experimental model of rheumatoid arthritis. *Arthritis Res. Ther.* **14**(5), R223 (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.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 08/28/2018

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM

WWW.CAYMANCHEM.COM