

Product Data Sheet

Product Name: Trandolaprilat (hydrate)

Cat. No.: GC46233

Chemical Properties

Cas. No. 951393-55-8

Chemical Name (2S,3aR,7aS)-1-[(2S)-2-[[[(1S)-1-carboxy-3-phenylpropyl]amino]-1-oxopropyl]octahydro-1H-Indole-2-carboxylic acid, monohydrate

SMILES O=C(O)[C@@H](N[C@@H](C)C(N1[C@](CCCC2)([H])[C@@]2([H])C[C@H]1C(O)=O)=O)CCC3=CC=CC=C3.O

Formula C₂₂H₃₀N₂O₅ • H₂O

M.Wt 420.5

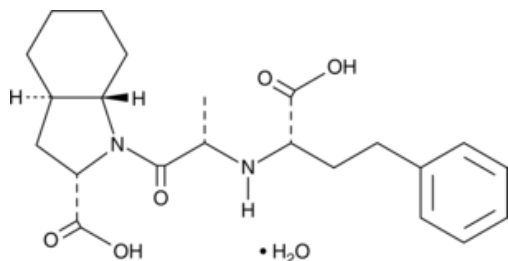
Solubility DMSO: slightly soluble, Methanol: slightly, heated, sonicated

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Trandolaprilat is an angiotensin-converting enzyme (ACE) inhibitor.[1] It inhibits angiotensin I-induced contraction in isolated rat thoracic aorta (IC₅₀ = 6.9 nM) and potentiates bradykinin-induced contraction in isolated guinea pig ileum with a 50% augmentation concentration (AC₅₀) value of 2.7 nM. Trandolaprilat induces relaxation of norepinephrine- or potassium chloride-precontracted isolated rat thoracic aorta with intact endothelium in a concentration-dependent manner. Trandolaprilat inhibits angiotensin I-induced pressor responses in rats and dogs (ID₅₀s = 9.9 and 7.2 µg/kg, respectively) and potentiates the bradykinin-induced depressor response in rats (ED₅₀ = 5.5 µg/kg).[2]

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Reference:

- [1]. Sekiguchi, N., Ishii, Y., Fujikura, H., et al. Pharmacological action of (-)-(2S,3aR,7aS)-1-[(S)-N-[(S)-1-carbonyl-3-phenylpropyl]alanyl]hexahydro-2-indolinecarboxylic acid (trandolaprilat) in isolated smooth muscle preparations. *Gen. Pharmacol.* 24(3), 585-590 (1993).
- [2]. Brown, N.L., Badel, M.-Y., Benzoni, F., et al. Angiotensin-converting enzyme inhibition, anti-hypertensive activity and hemodynamic profile of trandolapril (RU 44570). *Eur. J. Pharmacol.* 148(1), 79-91 (1988).

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