PRODUCT INFORMATION

Trandolapril
Item No. 13522

CAS Registry No.: 87679-37-6
Formal Name: (2S,3aR,7aS)-1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)-3-phenylpropyl]amino]-1-oxopropyl]octahydro-1H-indole-2-carboxylic acid
Synonym: RU-44570
MF: C24H34N2O5
FW: 430.5
Purity: ≥98%
Supplied as: A crystalline solid
Storage: -20°C
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly

Laboratory Procedures

Trandolapril is supplied as a crystalline solid. A stock solution may be made by dissolving the trandolapril in the solvent of choice. Trandolapril is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of trandolapril in these solvents is approximately 0.25, 25, and 15 mg/ml, respectively.

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 trandolapril can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of trandolapril in PBS, pH 7.2, is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Trandolapril is an inhibitor of angiotensin-converting enzyme (ACE; IC50 = 0.93 nM).1 Formulations containing trandolapril, with or without the calcium channel blocker verapamil (Item No. 14288), are effective against certain cardiovascular disorders, including essential hypertension.2,3 ACE inhibitors, including trandolapril, also have neuroprotective effects in animal models.4

References