Fosinopril (sodium salt)
Item No. 21899

CAS Registry No.: 88889-14-9
Formal Name: 45-cyclohexyl-1-{2-[(R)-{(15)-2-methyl-1-[(1-oxoproxy)propoxy] (4-phenylbutyl)phosphinyl]acetyl}L-proline, monosodium salt
Synonym: SQ 28,555
MF: C_{30}H_{45}NO_{7}P • Na
FW: 585.7
Purity: ≥98%
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years

Laboratory Procedures

Fosinopril is supplied as a crystalline solid. A stock solution may be made by dissolving the fosinopril (sodium salt) in the solvent of choice. Fosinopril (sodium salt) is soluble in the organic solvent methanol, which should be purged with an inert gas. The solubility of fosinopril (sodium salt) in methanol is approximately 1 mg/ml.

Description

Fosinopril (sodium salt) is the ester prodrug of fosinoprilat, an angiotensin converting enzyme (ACE) inhibitor. In vivo, fosinopril is rapidly hydrolyzed to fosinoprilat in the gastrointestinal mucosa and liver. Oral fosinopril administration to rats (15.0 μmol/kg), dogs (15.0 μmol/kg), and monkeys (10.0 μmol/kg) results in 78, 92, and 96% maximal inhibition of angiotensin I-induced increase in blood pressure, respectively. Formulations containing fosinopril have been used to treat hypertension and congestive heart failure.

References