Data Sheet (Cat.No.T61095)



SCH-42354

Chemical Properties

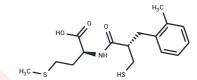
CAS No.: 144505-58-8

Formula: C16H23NO3S2

Molecular Weight: 341.49

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	SCH-42354 is a potent, orally active inhibitor of neutral endopeptidase (NEP), serving as the active form of the prodrug SCH-42495. By inhibiting NEP hydrolysis, SCH-42354 enhances the activity of atrial natriuretic peptide (ANP) and prevents the hydrolysis of leu-enkephalin and ANF with IC50 values of 8.3 nM and 10.0 nM, respectively. Furthermore, SCH-42354 exhibits antihypertensive activity [1] [2].
In vitro	SCH-42354, at concentrations ranging from 10-100 nM, enhances the efficacy of atrial natriuretic peptide (ANP) both in isolated pulmonary vessels and perfused whole lungs, demonstrating a dose-dependent amplification of ANP activity [1].

Preparing Stock Solutions

	1mg	5mg	10mg	
1 mM	2.9283 mL	14.6417 mL	29.2834 mL	
5 mM	0.5857 mL	2.9283 mL	5.8567 mL	
10 mM	0.2928 mL	1.4642 mL	2.9283 mL	
50 mM	0.0586 mL	0.2928 mL	0.5857 mL	

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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