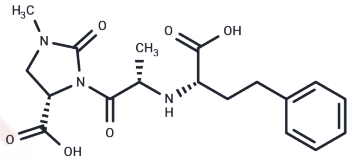
Data Sheet (Cat.No.T11642)

TargetMol

Imidaprilate

Chemical Properties



CAS No. : 89371-44-8

Formula: C18H23N3O6

Molecular Weight: 377.39

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Imidaprilate, an active metabolite of TA-6366, is a potent angiotensin-converting enzyme (ACE) inhibitor (IC50: 2.6 nM) used in hypertension research.
Targets(IC50)	RAAS,Angiotensin-converting Enzyme (ACE)
In vitro	Imidaprilate augments the bradykinin-induced contraction of guinea pig ileum, with AC50 of 1.7 nM.Imidaprilate ?is an active metabolite of 6366, acts as a potent angiotensin converting enzyme (ACE) inhibitor, with an IC50 of 2.6 nM.
In vivo	Imidaprilate (≥0.2 mg/kg) inhibits the pressor response induced by angiotensin I (AT-I).

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6498 mL	13.2489 mL	26.4978 mL
5 mM	0.530 mL	2.6498 mL	5.2996 mL
10 mM	0.265 mL	1.3249 mL	2.6498 mL
50 mM	0.053 mL	0.265 mL	0.530 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Kubo M, et al. Pharmacological studies on (4S)-1-methyl-3-[(2S)-2-[N-((1S)-1-ethoxycarbonyl-3-phenylpropyl) amino] propionyl]-2-oxo-imidazolidine-4-carboxylic acid hydrochloride (TA-6366), a new ACE inhibitor: I. ACE inhibitory and anti-hypertensive activities. Jpn J Pharmacol. 1990 Jun;53(2):201-10.

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