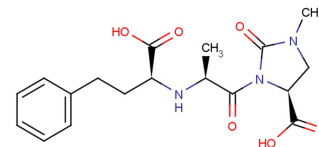


## Imidaprilate

## Chemical Properties

CAS No.:	89371-44-8
Formula:	C <sub>18</sub> H <sub>23</sub> N <sub>3</sub> O <sub>6</sub>
Molecular Weight:	377.39
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Imidaprilate is an active metabolite of TA-6366, acts as a potent angiotensin-converting enzyme (ACE) inhibitor (IC <sub>50</sub> : 2.6 nM). It is used in the research of the hypertensive disease.
Targets(IC <sub>50</sub> )	ACE: 2.6 nM
In vitro	Imidaprilate is an active metabolite of 6366, acts as a potent angiotensin-converting enzyme (ACE) inhibitor (IC <sub>50</sub> : 2.6 nM). Imidaprilate augments the bradykinin-induced contraction of guinea pig ileum (AC <sub>50</sub> : 1.7 nM).
In vivo	Imidaprilate (≥0.2 mg/kg) inhibits angiotensin I (AT-I)-induced pressor response.

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.65 mL	13.249 mL	26.498 mL
5 mM	0.53 mL	2.65 mL	5.3 mL
10 mM	0.265 mL	1.325 mL	2.65 mL
50 mM	0.053 mL	0.265 mL	0.53 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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