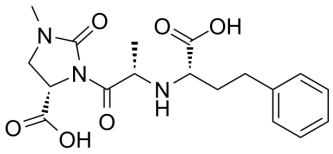
Imidaprilate

Cat. No.:	HY-109592
CAS No.:	89371-44-8
Molecular Formula:	$C_{18}H_{23}N_3O_6$
Molecular Weight:	377.39
Target:	Angiotensin-converting Enzyme (ACE)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Imidaprilate is an active metabolite of TA-6366, acts as a potent angiotensin converting enzyme (ACE) inhibitor, with an IC_{50} of 2.6 nM, and is used in the research of hypertensive disease.
IC_{50} & Target	IC50: 2.6 nM (ACE)[1]
In Vitro	Imidaprilate (6366A) is an active metabolite of 6366, acts as a potent angiotensin converting enzyme (ACE) inhibitor, with an IC_{50} of 2.6 nM. Imidaprilate augments the bradykinin-induced contraction of guinea pig ileum, with AC_{50} of 1.7 nM[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Imidaprilate (≥0.2 mg/kg) inhibits angiotensin I (AT-I)-induced pressor response. TA-6366 lowers the blood pressure in two-kidney one-clip renal hypertensive rats at 0.5-2 mg/kg via oral administration, and in spontaneously hypertensive rats (SHRs) at 2 to 10 mg/kg[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[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.

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