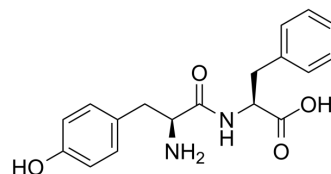


H-Tyr-Phe-OH

Cat. No.:	HY-W011258
CAS No.:	17355-11-2
Molecular Formula:	C ₁₈ H ₂₀ N ₂ O ₄
Molecular Weight:	328.36
Target:	Xanthine Oxidase; Angiotensin-converting Enzyme (ACE)
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 5 mg/mL (15.23 mM; Need ultrasonic)					
		Solvent Concentration	Mass			
	Preparing Stock Solutions			1 mg	5 mg	10 mg
		1 mM		3.0454 mL	15.2272 mL	30.4544 mL
		5 mM		0.6091 mL	3.0454 mL	6.0909 mL
	10 mM		0.3045 mL	1.5227 mL	3.0454 mL	
Please refer to the solubility information to select the appropriate solvent.						

BIOLOGICAL ACTIVITY

Description	H-Tyr-Phe-OH (L-Tyrosyl-L-phenylalanine) is an orally active inhibitor of Angiotensin converting enzyme (ACE), with an inhibition rate of 48% at 50 μM. H-Tyr-Phe-OH can be used as a biomarker for differentiating benign thyroid nodules (BTN) from thyroid cancer (TC). H-Tyr-Phe-OH exhibits xanthine oxidase inhibition (uric acid lowering) activity and serves as regulator in IL-8 production in neutrophil-like cells ^{[1][2][3][4]} .
IC₅₀ & Target	Target: ACE (Angiotensin converting enzyme), xanthine oxidase ^[1]

REFERENCES

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- [2]. Enari Hiroyuki, et al. Angiotensin converting enzyme (ACE)-inhibiting peptides, ACE inhibitors containing the peptides, their uses, and manufacture of the peptides from shark cartilage: Japan, JP2005154326A[P]. 2005-06-16.
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[4]. Hsueh PC, et al. Metabolomic profiling of parapneumonic effusion reveals a regulatory role of dipeptides in interleukin-8 production in neutrophil-like cells. *Anal Chim Acta*. 2020 Sep 1;1128:238-250.

Caution: Product has not been fully validated for medical applications. For research use only.

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