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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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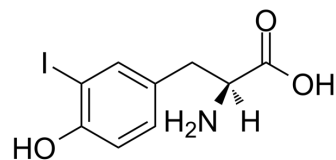
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H-Tyr(3-I)-OH

Cat. No.:	HY-W008452		
CAS No.:	70-78-0		
Molecular Formula:	C ₉ H ₁₀ INO ₃		
Molecular Weight:	307		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 5 mg/mL (16.29 mM); ultrasonic and warming and heat to 80°C				
	DMSO : < 1 mg/mL (ultrasonic) (insoluble or slightly soluble)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.2573 mL	16.2866 mL	32.5733 mL
	5 mM	0.6515 mL	3.2573 mL	6.5147 mL	
	10 mM	0.3257 mL	1.6287 mL	3.2573 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 3.33 mg/mL (10.85 mM); Clear solution; Need ultrasonic and warming and heat to 60°C				

BIOLOGICAL ACTIVITY

Description	H-Tyr(3-I)-OH is a potent and effective tyrosine hydroxylase inhibitor. H-Tyr(3-I)-OH is an intermediate in the production of thyroid hormones and has a role as a human or mouse metabolite ^{[1][2]} .
IC ₅₀ & Target	Human Endogenous Metabolite
In Vitro	H-Tyr(3-I)-OH (3-iodo-L-tyrosine) is as effective inhibitor of tyrosine hydroxylase. At a concentration of 100µM 3-iodo-L-tyrosine inhibits the enzymatic activity 100% and at a concentration of 10µM it inhibits 60-70% ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. D K Ness, et al. Effects of 3-iodo-L-tyrosine, a tyrosine hydroxylase inhibitor, on eye pigmentation and biogenic amines in the planarian, *Dugesia dorotocephala*. *Fundam Appl Toxicol.* 1996 Apr;30(2):153-61.

[2]. GOLDSTEIN M, et al. INHIBITION OF TYROSINE HYDROXYLASE BY 3-iodo-L-TYROSINE. *Life Sci* (1962). 1965 Jan;4:261-4.

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

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