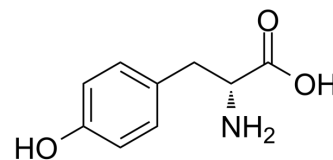


D-Tyrosine

Cat. No.:	HY-Y0444		
CAS No.:	556-02-5		
Molecular Formula:	C ₉ H ₁₁ NO ₃		
Molecular Weight:	181.19		
Target:	Tyrosinase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

1M HCl : 25 mg/mL (137.98 mM; ultrasonic and warming and heat to 60°C)
 DMSO : < 1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble or slightly soluble)
 H₂O : < 0.1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		5.5191 mL	27.5953 mL	55.1907 mL
	5 mM		1.1038 mL	5.5191 mL	11.0381 mL
	10 mM		0.5519 mL	2.7595 mL	5.5191 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

D-Tyrosine is the D-isomer of tyrosine. D-Tyrosine negatively regulates melanin synthesis by inhibiting tyrosinase activity. D-Tyrosine inhibits biofilm formation and trigger the self-dispersal of biofilms without suppressing bacterial growth^{[1][2]}.

IC₅₀ & Target

Tyrosinase^[1]

REFERENCES

- [1]. Jisu Park, et al. D-tyrosine Negatively Regulates Melanin Synthesis by Competitively Inhibiting Tyrosinase Activity. *Pigment Cell Melanoma Res.* 2018 May;31(3):374-383.
 [2]. Cong Yu, et al. Inhibition of Biofilm Formation by D-tyrosine: Effect of Bacterial Type and D-tyrosine Concentration. *Water Res.* 2016 Apr 1;92:173-9.

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

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