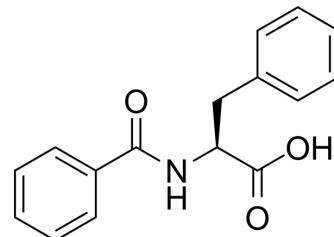


Benzoyl-L-phenylalanine

Cat. No.:	HY-118391		
CAS No.:	2566-22-5		
Molecular Formula:	C ₁₆ H ₁₅ NO ₃		
Molecular Weight:	269.3		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (371.33 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	3.7133 mL	18.5667 mL	37.1333 mL
	5 mM	0.7427 mL	3.7133 mL	7.4267 mL
	10 mM	0.3713 mL	1.8567 mL	3.7133 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (9.28 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.28 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.28 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	Benzoyl-L-phenylalanine (N-Benzoyl-L-phenylalanine) is a chorisate mutase-prephenate dehydrogenase inhibitor ^[1] .
IC ₅₀ & Target	Chorisate Mutase-prephenate Dehydrogenase ^[1]

REFERENCES

[1]. Smith GD, et al. Affinity chromatography and inhibition of chorismate mutase-prephenate dehydrogenase by derivatives of phenylalanine and tyrosine. *Biochem J.* 1977 Jul 1;165(1):121-6.

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

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