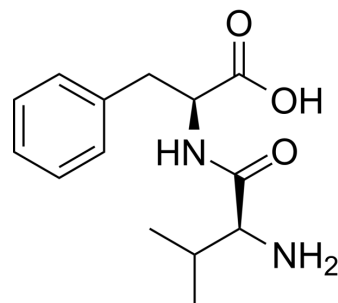


L-Valyl-L-phenylalanine

Cat. No.:	HY-107378		
CAS No.:	3918-92-1		
Molecular Formula:	C ₁₄ H ₂₀ N ₂ O ₃		
Molecular Weight:	264.32		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (378.33 mM; Need ultrasonic)
 H₂O : 66.67 mg/mL (252.23 mM; ultrasonic and adjust pH to 4 with HCl)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.7833 mL	18.9165 mL	37.8329 mL
	5 mM	0.7567 mL	3.7833 mL	7.5666 mL
	10 mM	0.3783 mL	1.8916 mL	3.7833 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (9.46 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (9.46 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (9.46 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

L-Valyl-L-phenylalanine (Valylphenylalanine; H-VAL-PHE-OH) has been reported as biocompatible polymer.

IC₅₀ & Target

Human Endogenous Metabolite

In Vitro

The alkyl esters of dipeptides consisting essentially of amino acids with hydrophobic side chains may be used to deplete cytotoxic T-lymphocytes or natural killer cells from organisms, cell populations or tissues^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. US5047401 A

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

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