L-Valyl-L-phenylalanine

Cat. No.: HY-107378

CAS No.: 3918-92-1

Molecular Formula: $C_{14}H_{20}N_2O_3$

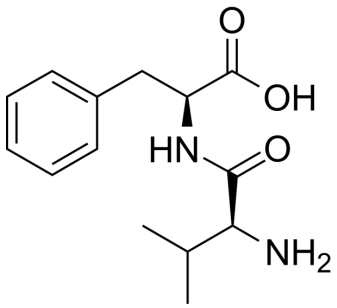
Molecular Weight: 264.32

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)

H_2O : 66.67 mg/mL (252.23 mM; ultrasonic and adjust pH to 4 with HCl)

Preparing Stock Solutions

Solvent / Mass / Concentration	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

1. 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
2. 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
3. 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.

IC_{50} & 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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA