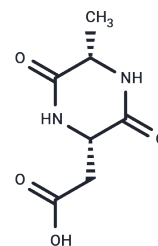


Aspartyl-alanyl-diketopiperazine

Chemical Properties

CAS No. : 110954-19-3
 Formula: C₇H₁₀N₂O₄
 Molecular Weight: 186.17
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	Aspartyl-alanyl-diketopiperazine (DA-DKP) is a known immunomodulatory molecule derived from the N terminus of human albumin.
Targets(IC50)	Others,Endogenous Metabolite,Interleukin
In vitro	Ampion can modulate the inflammatory immune response through a molecular pathway implicated in T- lymphocyte energy[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (537.14 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (21.49 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.3714 mL	26.8572 mL	53.7143 mL
5 mM	1.0743 mL	5.3714 mL	10.7429 mL
10 mM	0.5371 mL	2.6857 mL	5.3714 mL
50 mM	0.1074 mL	0.5371 mL	1.0743 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Shimonkevitz R, et al. A diketopiperazine fragment of human serum albumin modulates T-lymphocyte cytokine production through rap1. J Trauma. 2008 Jan;64(1):35-41.

Bar-Or D, et al. Dipeptidyl peptidase IV activity in commercial solutions of human serum albumin. Anal Biochem. 2013 Oct 1;441(1):13-7.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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