

Splenopentin diacetate

Chemical Properties

CAS No. : 105184-37-0

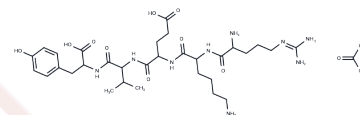
Formula: C33H55N9O11

Molecular Weight: 753.84

Keep away from moisture

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	Splenopentin diacetate (Splenin pentapeptide (32-36)) is a synthetic immunomodulating peptide and can reproduce the biological activities of splenin and thymic hormone thymopoietin.
Targets(IC50)	Others
In vitro	Splenopentin diacetate (0.1 ng/mL-10 µg/mL) induces phenotypic differentiation of both T- and B-cell precursor cells, to increase the number of antibody-forming cells in mice after gamma irradiation[2].
In vivo	Splenopentin diacetate (0.01-100 µg; i.p.) has no demonstrable effect on neuromuscular transmission of mice[2]. Splenopentin diacetate (1 mg/kg; i.p.) accelerates Langerhans cell recruitment and leads to pretreatment levels of Langerhans cell (LC) density in the skin of female Balb/c/Bln mice were injected Cyclophosphamide or Dexamethasone[3].

Solubility Information

Solubility	H2O: Insoluble, DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3265 mL	6.6327 mL	13.2654 mL
5 mM	0.2653 mL	1.3265 mL	2.6531 mL
10 mM	0.1327 mL	0.6633 mL	1.3265 mL
50 mM	0.0265 mL	0.1327 mL	0.2653 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

Rastogi A, et, al. Augmentation of human natural killer cells by splenopentin analogs. FEBS Lett. 1993 Feb 8;317(1-2):93-5.

Audhya T, et, al. Contrasting biological activities of thymopoietin and splenin, two closely related polypeptide products of thymus and spleen. Proc Natl Acad Sci U S A. 1984 May;81(9):2847-9.

Gruner S, et, al. Stimulation of the recruitment of epidermal Langerhans cells by splenopentin. Arch Dermatol Res. 1990;281(8):526-9.

Singh VK, et, al. Thymopentin and splenopentin as immunomodulators. Current status. Immunol Res. 1998;17(3):345-68.

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