

Thymalfasin

Chemical Properties

CAS No. : 62304-98-7

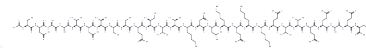
Formula: C129H215N33O55

Molecular Weight: 3108.28

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	Thymalfasin (Thymosin α 1) (thymosin-alpha 1) is an immunomodulating agent able to enhance the Th1 immune response.
Targets(IC50)	Others, Influenza Virus
In vitro	Thymalfasin has demonstrated efficacy in various experimental models of immune dysfunction, specifically in infectious diseases such as hepatitis (woodchuck) and influenza (mouse), and in cancer types like melanoma (mouse) and colorectal carcinoma (rat), where it has exhibited antitumor effects[2].
In vivo	Thymalfasin has demonstrated efficacy in various experimental models of immune dysfunction, including infectious diseases such as hepatitis (woodchuck) and influenza (mouse), and cancers like melanoma (mouse) and colorectal carcinoma (rat), where it has shown antitumor effects[2].

Solubility Information

Solubility	H2O: 0.3 mg/mL (0.1 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3217 mL	1.6086 mL	3.2172 mL
5 mM	0.0643 mL	0.3217 mL	0.6434 mL
10 mM	0.0322 mL	0.1609 mL	0.3217 mL
50 mM	0.0064 mL	0.0322 mL	0.0643 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

Lao X et al. A modified thymosin alpha 1 inhibits the growth of breast cancer both in vitro and in vivo: suppression of cell proliferation, inducible cell apoptosis and enhancement of targeted anticancer effects. Apoptosis. 2015 Oct;20(10):1307-20.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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