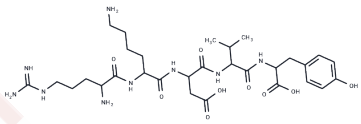
Data Sheet (Cat.No.T2598)

TargetMol

Thymopentin

Chemical Properties



CAS No. : 69558-55-0

Formula: C30H49N9O9

Molecular Weight: 679.77

Storage: Keep away from direct sunlight,Keep away from moisture
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	Synthetic pentapeptide corresponding to the amino acids 32-36 of thymopoietin and exhibiting the full biological activity of the natural hormone. Thymopentin (TP5) is an immunomodulator which has been studied for possible use in the treatment of rheumatoid arthritis, AIDS, and other primary immunodeficiencies.
Targets(IC50)	Estrogen/progestogen Receptor,Endogenous Metabolite

Solubility Information

Solubility	DMSO: 250 mg/mL (367.77 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: 2 mg/mL (2.94 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4711 mL	7.3554 mL	14.7109 mL
5 mM	0.2942 mL	1.4711 mL	2.9422 mL
10 mM	0.1471 mL	0.7355 mL	1.4711 mL
50 mM	0.0294 mL	0.1471 mL	0.2942 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

Zhu MX, et al. Exp Cell Res. 2015 Feb 15;331(2):387-98.
Kumar V, Liu H, Wu C. Drug Repurposing against SARS-CoV-2 Receptor Binding Domain using Ensemble-based Virtual Screening and Molecular Dynamics Simulations. Computers in biology and medicine. 2021: 104634.
Identification of lead small molecules for the design and development of potent severe acute respiratory syndrome coronavirus 2 main protease inhibitors