9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

Thymulin

Thymulin
HRM0114

Product Overview

Name	Thymulin

Description

Thymulin

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

The protein was lyophilized with no additives.

Stability

Lyophilized Thymulin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Thymulin should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 97.0% as determined by analysis by RP-HPLC.

Amino acid sequence

Pyr-Ala-Lys-Ser-Gln-Gly-Gly-Ser-Asn-OH.

Solubility

It is recommended to reconstitute the lyophilized Thymulin in sterile 18MΩ-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Background

Thymulin, a nonapeptide hormone, is produced primarily by the thymus gland and has been recognized for its pivotal role in the immune system. It plays a significant role in the maturation and differentiation of T lymphocytes, which are crucial for immune function. Beyond its immune-related functions, research has increasingly unveiled the diverse physiological roles of thymulin. This study aims to comprehensively investigate thymulin, shedding light on its immunological functions and exploring its potential applications in various aspects of health and medicine. The primary objective of this research is to elucidate the mechanisms underlying thymulin's role in immune regulation. In vitro and in vivo experiments will be conducted to explore thymulin's interactions with immune cells, its impact on T cell development and function, and its potential modulation of immune responses. Understanding these mechanisms is fundamental for harnessing thymulin's immunomodulatory properties. The second objective is to

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assess the clinical relevance of thymulin in immune-related disorders. Clinical trials and studies involving individuals with autoimmune diseases, immunodeficiencies, and age-related immune decline will be conducted to evaluate the potential therapeutic applications of thymulin. These investigations may offer insights into the use of thymulin as an immunomodulatory agent in various clinical settings. The third objective is to explore the broader implications of thymulin in health and medicine. Research will investigate its potential roles in areas beyond immunology, such as neuroprotection, wound healing, and tissue regeneration. Understanding the multifaceted properties of thymulin may open new avenues for therapeutic interventions in various medical specialties. By delving into the diverse functions of thymulin, this research aims to expand our knowledge of its physiological roles and clinical applications. The findings may have implications for the development of innovative approaches in immunology and healthcare, ultimately benefiting patients affected by immune-related disorders and other medical conditions.

Precautions

Thymulin is for research use only and not for use in diagnostic or therapeutic procedures.

Background

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benefiting patients affected by immune-related disorders and other medical conditions.