



White Powder Human Growth Hormone Peptide Epitalon 10mg / Vial For Anti Aging

Our Product Introduction

for more products please visit us on peptide-powder.com

Basic Information

- Place of Origin: China
- Brand Name: Hongbaiyi
- Certification: COA, HPLC MR
- Model Number: HBY-Epitalon
- Minimum Order Quantity: 5box
- Price: US \$ 48-54/ box
- Packaging Details: 10mg/vial, 10vials/box
- Delivery Time: 3-5 work days after your payment
- Payment Terms: , Western Union, T/T
- Supply Ability: 3000kg/Month



Product Specification

- Peptide Name: Epithalon
- CAS No.: 307297-39-8
- MF: C14H22N4O9
- MW: 390.35
- Appearance: White Powder
- Purity: >99.2%
- Specifications: 10mg/vial, 10vials/box



More Images



WHY CHOOSE US

- 1 Own Factory**
Hongbaiyi has its own factory, which covers 18,000 square meters and is equipped with 4 standardized production workshops.
- 2 Professional Supplier**
Hongbaiyi is a professional supplier of APIs, pharmaceutical intermediates, veterinary medicine, cosmetic raw, nutritional supplements and other natural active ingredients.
- 3 Quality Assurance**
With strict QC system, our product quality is very reliable and stable. Besides, we have strong technical research and development strength.
- 4 Sales Team**
The experienced sales team of Hongbaiyi offers 24*365 quality service and the products were exported to over 40 countries around the globe.

Product Description

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Basic Information Form of Epitalon

Peptide Name	Epithalon
CAS NO.	307297-39-8
Appearance	White Powder
MW	390.35
MF	C ₁₄ H ₂₂ N ₄ O ₉
Purity	99.2%
Specifications	10mg/vial, 10vials/box
Stability	2 years

What Is Epitalon

Epithalon (also known as Epitalon or Epithalone) is the synthetic version of the polypeptide Epithalamin which is naturally produced in humans. This pineal peptide preparation is secreted in the epithalamium-epiphyseal region of the brain. Its more prominent tasks are: to regulate metabolism in the epiphysis, increase the sensitivity of hypothalamus to its natural hormonal influences, normalize the function of the anterior pituitary, regulate the levels of gonadotropins and melatonin in the body. Epithalamin increases a person's resistance to emotional stress and also acts as an antioxidant.

Epithalamin was first discovered in the late 1980's by Prof. Vladimir Khavinson from St. Petersburg, Russia. It has been studied extensively ever since. It is known by several names, including Epitalon, Epithalon, Epithalone, Epithalamin and Epithalamine. Since all the patents are held by the Russian inventor there is not much interest for this tetra-peptide from the western big pharma industry. This makes the substance fairly unknown in the west due to the absence of marketing usually seen with big pharma products. In Russia it is currently in clinical studies and shows prospective results as treatment for liver disorders, neuropathology, psychiatry and geriatrics.

Epithalon is a peptide used to regulate the cell cycle through up-regulation of telomerase activity. The sequence of amino acids in the peptide is Alanine-Glutamate-Asparagine-Glycine. Animal studies have been done on the effects of Epithalon on suppression of spontaneous mammary tumors and spontaneous carcinogenesis. Studies have shown that the mode of action of Epithalon involves suppression of oncogene expression and modification of telomerase activity. A summary of the studies and research on telomerase is provided below.

Telomerase is a specific RNA (ribonucleic acid)-dependent polymerase that elongates and maintains the length of telomeres by adding tandem repeats on the chromosomal 3' end. The enzyme is composed of two parts: an RNA component which supplies the telomere template for elongation, and the catalytic subunit which possesses reverse transcriptase activity. These two parts work in tandem to avert telomere attrition especially in somatic cells. In vitro experiments have shown that telomere elongation promotes indefinite cellular proliferation and that suppression of telomerase activity promotes apoptosis of neoplastic cells. However, these studies have also shown that maintenance of telomere length within a range of 15-20 kilobase pairs does prevent tumorigenesis. All the research and studies done concerning telomerase do show that telomerase activity is limited to cell division through its action of stabilizing the telomere length.

Telomeres are located at either ends of a chromosome, and they do protect the adjacent gene sequence from shortening due to repeated replication cycles. Elongation of telomeres enables senescent cells to stabilize their telomeric length. However, excess elongation would enable such cells to exceed their Hayflick limit via evasion of apoptosis or the post-mitotic phase; and therefore, such cells have the potential of becoming immortal and this predisposes them to neoplastic transformation.

Human telomeres are made up of tandem repeats of the nucleotide sequence TTAGGG that form a T loop structure when associated with telomere-binding proteins. The T loop structure ensures the integrity of the telomeres by protecting them from constitutive degradation. These tandem repeats do shorten as a consequence of repeated chromosomal replication cycles. Such shortening is due to the inability of DNA polymerase to repeatedly replicate the nucleotides located in the T loop region. This leads to senescence or growth arrest, and a critically shortened telomere does induce a p53-mediated DNA checkpoint reaction. Some cells do evade senescence if they have nonfunctional p53 and/or pRb, but cell death still occurs due to either lethal DNA rearrangements or chromosomal fusion. Thus, evasion of telomere-mediated senescence is the main way that cells use to avert premature senescence and apoptosis. This occurs only when telomerase activity is up-regulated. Telomerase elongation leads to stabilization of the genotype as the rate of gene mutation is maintained within normal limits. However, an increase in the rate of apoptosis leads to a proportionate increase in cellular regeneration rate, and this causes an increase in the number of sporadic gene mutations that occur thus predisposing the person to pro-neoplastic mutations.

Current studies show that telomere shortening is associated with chronic diseases such as pulmonary fibrosis, coronary artery disease, diabetes mellitus and Alzheimer's disease, though their findings are still considered inconclusive. Based on the findings of these studies, it can be theorized that Epithalon could prevent the development of these diseases.

Product Image of Epitalon



Application Of Epitalon

Epitalon decreases the age-related changes in immune and neuroendocrine systems, reduces the incidence of recurrent infections and chronic diseases. Long term clinical trials have shown that in patients with age-related pathology Epithalamin eliminates imbalance in prooxidation and antioxidation systems. Results of 12-months treatment with Epithalon in patients with signs of accelerated aging showed normalizing effect on metabolism and condition of various functional systems. Elevated uric acid, alkaline phosphatase and cholesterol in elder patients returned to normal after 10 days of treatment, and remained stable in a several months period afterwards.

Package and Shipping of Epitalon

Package: 10mg/vial, 10vials/box

Shipping: With 3-5 days after your payment



FAQ of Epitalon

Q1: Do you Accept Sample Order?

A: Yes. The smallest order we accept is one box.

Q2: Do you accept VISA business credit card?

A: Yes. VISA business credit card is in our payment.

Q3: How long does it take to me if I order?

A: About 3-5 days upon receipt of payment.

Q4: Is there any discount?

A: Yes, if you want to purchase larger quantity, we can offer a better price for you.

Q5: What kind of transportation do you have?

A: We have many ways of transportations, eg: Air, Sea, Special Lines, TNT, FEDEX, EMS, ect.



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