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

SELANK

SELANK
HRM0102

Product Overview

Name	SELANK

Description

SELANK

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

The protein was lyophilized with no additives.

Stability

Lyophilized SELANK although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution SELANK 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

H-Thr-Lys-Pro-Arg-Pro-Gly-Pro-OH.

Solubility

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

Background

Selank, also known as TP-7, is a synthetic peptide that has garnered significant attention in the scientific community due to its potential anxiolytic, neuroprotective, and nootropic effects. This heptapeptide, derived from the naturally occurring human tetrapeptide Tuftsin, has been shown to possess a wide range of biological activities, including enhancing memory, reducing anxiety, and potentially mitigating the effects of neurodegenerative diseases. Selank's primary mechanism of action involves its interaction with the GABAergic system, the body's main inhibitory neurotransmitter system. By modulating the activity of GABA receptors, Selank can exert a calming effect on the brain, reducing anxiety and enhancing cognitive function. Studies by Semenova et al. (2014) have demonstrated that Selank can enhance memory and learning in rats, suggesting potential applications in cognitive enhancement and the treatment of cognitive disorders. In addition to its anxiolytic and nootropic effects, Selank has

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been shown to possess neuroprotective properties. Research by Ershov et al. (2016) found that Selank could protect neurons from oxidative stress, suggesting potential applications in the treatment of neurodegenerative diseases such as Alzheimer's and Parkinson's disease. Given its anxiolytic, nootropic, and neuroprotective effects, Selank has been proposed as a potential therapeutic agent for a variety of conditions, including anxiety disorders, cognitive disorders, and neurodegenerative diseases. For instance, a study by Medvedev et al. (2017) found that Selank could improve symptoms in patients with generalized anxiety disorder, indicating its potential as a therapeutic agent in the treatment of anxiety disorders. While research on Selank is promising, it is important to note that most studies have been conducted in animals or in vitro. More research is needed to fully understand the potential effects and applications of Selank in humans. However, the existing body of research suggests that Selank could be a promising tool in the treatment of anxiety disorders, cognitive disorders, and neurodegenerative diseases.

Precautions

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

Background

Selank, also known as TP-7, is a synthetic peptide that has garnered significant attention in the scientific community due to its potential anxiolytic, neuroprotective, and nootropic effects. This heptapeptide, derived from the naturally occurring human tetrapeptide Tuftsin, has been shown to possess a wide range of biological activities, including enhancing memory, reducing anxiety, and potentially mitigating the effects of neurodegenerative diseases. Selank's primary mechanism of action involves its interaction with the GABAergic system, the body's main inhibitory neurotransmitter system. By modulating the activity of GABA receptors, Selank can exert a calming effect on the brain, reducing anxiety and enhancing cognitive function. Studies by Semenova et al. (2014) have demonstrated that Selank can enhance memory and learning in rats, suggesting potential applications in cognitive enhancement and the treatment of cognitive disorders. In addition to its anxiolytic and nootropic effects, Selank has been shown to possess neuroprotective properties. Research by Ershov et al. (2016) found that Selank could protect neurons from oxidative stress, suggesting potential applications in the treatment of neurodegenerative diseases such as Alzheimer's and Parkinson's disease. Given its anxiolytic, nootropic, and neuroprotective effects, Selank has been proposed as a potential therapeutic agent for a variety of conditions, including anxiety disorders, cognitive disorders, and neurodegenerative diseases. For instance, a study by Medvedev et al. (2017) found that Selank could improve symptoms in patients with generalized anxiety disorder, indicating its potential as a therapeutic agent in the treatment of anxiety disorders. While research on Selank is promising, it is important to note that most studies have been conducted in animals or in vitro. More research is needed to fully understand the potential effects and applications of Selank in humans. However, the existing body of research suggests that Selank could be a

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