



Intermediate Peptide Mots-C (human) for Osteoporosis CAS 1627580-64-6

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Hongbaiyi
- Certification: COA, HPLC MR
- Model Number: HBY-Mots-C
- Minimum Order Quantity: 1KG
- Price: Negotiable
- Packaging Details: 10mg/vial, 10vials/box
- Delivery Time: 3-5 work days after your payment
- Payment Terms: Western Union, T/T, , Western Union
- Supply Ability: 4000kg/Month



Product Specification

- NAME: Peptide Intermediate Mots-C (human) For Osteoporosis CAS 1627580-64-6
- APPEARANCE: WHITE, POWDER
- ASSAY: 99%
- CAS: 1627580-64-6
- Molecular Weight: 2174.6
- Molecular Formula: C101H152N28O22S2
- Temperture: 2-8
- SHELF LIFE: 2 YEARS



Product Description

What is Peptide Intermediate Mots-C (human) For Osteoporosis CAS 1627580-64-6?

Mitochondria are known to be functional organelles, but their role as a signaling unit is increasingly being appreciated. The identification of a short open reading frame (SORF) in the mitochondrial DNA (mtDNA) that encodes a signaling peptide, humanin, suggests the possible existence of additional SORFS in the mtDNA. Here we report a SORF within the mitochondrial 12S rRNA encoding a 16-amino-acid peptide named MOTS-C (mitochondrial open reading frame of the 12S rRNA-C) that regulates insulin sensitivity and metabolic homeostasis. Its primary target organ appears to be the skeletal muscle, and its cellular actions inhibit the folate cycle and its tethered de novo purine biosynthesis, leading to AMPK activation. MOTS-C treatment in mice prevented age-dependent and high-fat-diet-induced insulin resistance, as well as diet-induced obesity.

These results suggest that mitochondria may actively regulate metabolic homeostasis at the cellular and organismal level via peptides encoded within their genome.

Product Name	Peptide Intermediate Mots-C (human) For Osteoporosis CAS 1627580-64-6
Appearance	White, powder
Specification	10mg/vial
Assay	99%min
Test	HPLC
CAS	1627580-64-6
MF	C101H152N28O22S2
Storage	2-8



Application:

MOTS-C in Osteoporosis

Osteoporosis is a multi-factor and age-related metabolic disease. Bone mesenchymal stem cells (BMSCs) are the progenitor cells of osteoblasts and adipocytes and play an essential role in the process of bone formation.

AMPK can stimulate the proliferation, differentiation and mineralization of osteoblasts, which exerts an important role in the cellular functions of osteoblasts. Osteoblasts are cells that make bone. Bone mass is maintained by a balance between the activity of osteoblasts that form bone and other cells called osteoclasts that break it down.

Studies show that BMSC's treated with MOTS-C upregulated expression levels of ALP, Bglap, and Runx2. This resulted in the formation of mineralized nodules, indicating the osteogenic capacity of BMSC's regulated by MOTS-C. In simple nonscientific terms,

MOTS-C promotes cell differentiation of BMSCs to osteoblasts = bone formation.

Function:

- Promotes fatty acid metabolism in the liver
- Promotes metabolic flexibility and homeostasis
- Helps regulate mitochondrial energy
- Protects against age and diet dependent insulin resistance and obesity
- Helps with weight loss
- Promotes resistance to metabolic stress
- Improves exercise capacity
- Helps prevent osteoporosis
- Improves glucose regulation
- Promotes cell differentiation to form osteoblasts

Package and shipping of Peptide Intermediate Mots-C (human) For Osteoporosis CAS 1627580-64-6

Package



Shipping

With 3-5 work days after your payment.

FAQ of Peptide Intermediate Mots-C (human) For Osteoporosis CAS 1627580-64-6

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: Is there any discount?

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

Q4: How long does it take to me if I order?

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

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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