



UNDERSTANDING YOUR TREATMENT



MOTS-c

A mitochondrial-derived peptide studied for its role in cellular energy, metabolism, and longevity.

- i** MOTS-c is a 16-amino acid mitochondrial-derived peptide (MDP) encoded by the 12S rRNA gene within mitochondrial DNA — the first mitochondrial-encoded peptide with hormonal function. Discovered by Changhan David Lee (USC, 2015), it functions as an exercise mimetic, activating AMPK and improving gluco

HOW IT WORKS

1**Compound Class**

Mitochondrial-Derived Peptide (MDP)

2**Origin**

Encoded by the mitochondrial genome (12S rRNA gene)

3**Administration**

Subcutaneous injection, as directed by your provider

Talk to your prescriber about whether MOTS-c may be right for you

This compound is available by prescription only



WHAT RESEARCHERS HAVE FOUND

Metabolic Regulation and Exercise Mimetic Effects

The original 2015 discovery study demonstrated that MOTS-c treatment in mice prevented age-dependent and high-fat-diet-induced insulin resistance, and improved glucose metabolism through AMPK activation.

Cell Metabolism (Lee et al.), 2015

Physical Performance and Aging

Research published in 2019 found that MOTS-c levels in human skeletal muscle increased significantly after exercise, and that late-life MOTS-c treatment in aged mice improved physical capacity, suggesting a role in exercise-responsive metabolic regulation.

Nature Communications, 2019

QUESTIONS TO ASK YOUR PROVIDER

- ? What evidence level supports MOTS-c for this patient's indication?
- ? What monitoring protocol should I establish?
- ? Are there contraindications or interactions to screen for?
- ? What is the recommended duration and cycling protocol?
- ? What is the current regulatory status?

IMPORTANT SAFETY INFO

Research is still in relatively early stages; most data comes from preclinical and observational human studies

Injection site reactions (redness, mild discomfort) are the most commonly noted side effect

MOTS-c is a naturally occurring peptide — circulating levels decline with age

Tell your provider about all medications, especially diabetes or metabolic therapies

Store reconstituted solution as directed by your pharmacy; follow all handling instructions

Have Questions?

Eternal Beauty Medical Aesthetics

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<https://www.eternalbeautyarkana.com>

This is a compounded preparation and is NOT an FDA-approved product. It is prepared by a licensed pharmacy based on a prescription from your healthcare provider. The safety and efficacy of this compounded preparation have not been established by the FDA.

This information is for educational purposes only and does not constitute medical advice. Consult your healthcare provider before starting any new medication.