celia
Research Protocols

Libido

PT-141

About

PT-141, is a melanocortin receptor agonist that is being studied for enhancing sexual desire and arousal by acting on the central nervous system, specifically targeting MC4 receptors in the brain. Unlike traditional ED medications that improve blood flow, PT-141 is being studied for stimulating neural pathways related to libido, making it effective for both men and women, especially those with low sexual desire or psychogenic erectile dysfunction.

***These products are for research use only and are not intended for human consumption, medical use, therapeutic use, or diagnostic purposes.** They are not to be used in foods, drugs, cosmetics, dietary supplements, or any products intended for humans or animals. Peptides are not sterile, have not been tested for safety or efficacy in humans, and must not be injected, ingested, inhaled, applied to the skin, or administered in any form. No product sold is intended to treat, cure, mitigate, or prevent any disease.

What's Included

- One vial; concentration 10mg/2mL
- One vial contains 5 injections

Reconstitution kit

- (20) 29-30G subq needles
- (1) 5mL syringe
- (1) 25G needle with syringe
- (1) 10 mL bacteriostatic water

Clinical Research Potential Benefits:

- May help enhance sexual desire and arousal
- May support erectile function
- May increase overall sexual satisfaction
- May contribute to hormone balance and support

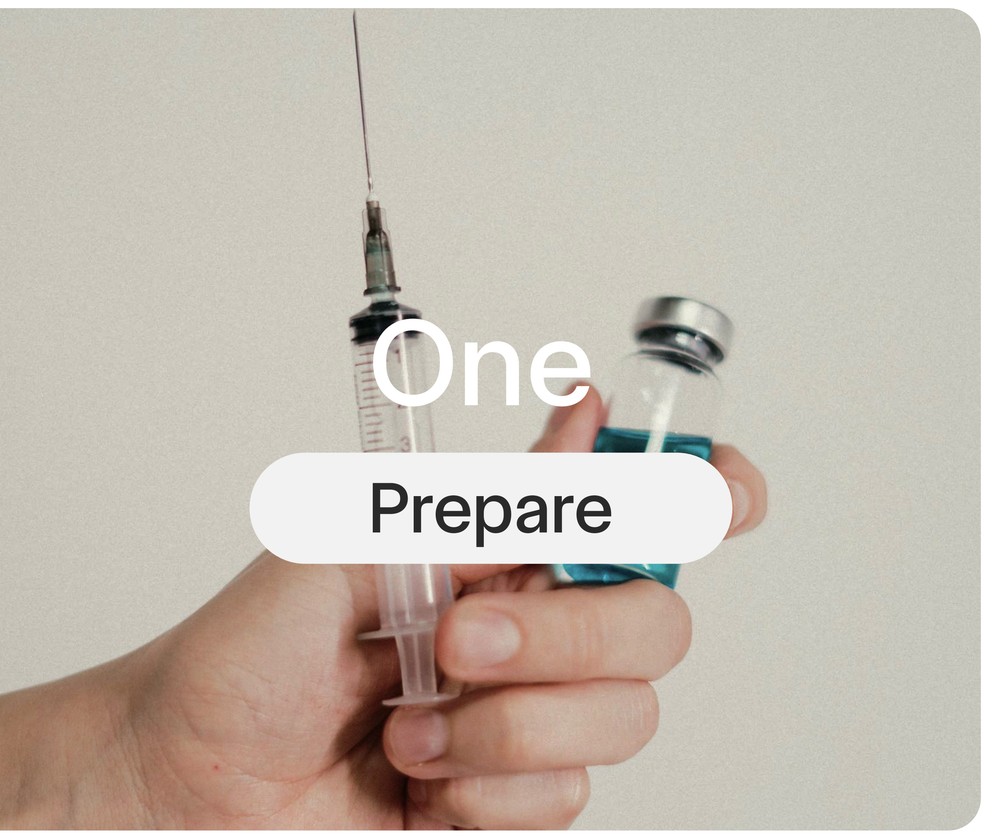
Clinical Research Suggested Use:

- Draw up 20-40 units (1-2mg) into the syringe
- Duration: As needed
- Reconstitute: add 2mL bacteriostatic water to the to the lyophilized powder vial
- Injection type: subcutaneous injection
- Duration of effects after administration can last 24-72 hours
- First time trial: inject 20 units; wait 30 minutes to determine any blood pressure or GI effects and if no effects, proceed with an additional 20 units
- Not recommended to use more than 2 injections, (not for use with PDE5 Inhibitor, discontinue use if tachycardia develops, monitor closely if hypertensive).

Reconstitution & Administration*

*Instructions start on page 2

PT-141 Reconstitution



STEP 1: Remove plastic covers, clean vial and bacteriostatic water top with alcohol pad for 15 seconds

STEP 2: Using the large syringe from your administration kit, pull out 2mL of Bacteriostatic water

- It may take a few repetitions to load your syringe with the 2mL with no air pockets

STEP 3: Once you've loaded your syringe, slowly inject the 2mL of Bacteriostatic water into your PT-141 vial:

- On its side to not damage the bonds of the product
- Do not shake, gently swirl if needed
- Allow the solution to sit for at least 5 minutes

***Supplies:** 5 mL syringe (large), 25G needle, Bacteriostatic water, PT-141 vial, Alcohol pad

STEP 1: With the smaller needle draw up 20 units of the PT-141 into the small syringe from your kit
First time trial: inject 20 units; wait 30 minutes to determine any blood pressure or GI effects and if no effects, proceed with an additional 20 units
***Supplies:** 29G-30G subcutaneous syringe with needle (small), Alcohol pad

STEP 1: Clean the injection area with an alcohol pad

STEP 2: Inject subcutaneously (see pg 3)

- Not recommended to use more than 2 injections
- Not for use with PDE5 Inhibitor, discontinue use if tachycardia develops, monitor closely if hypertensive
- Duration: as needed

****Caution:** Contraindicated in individuals with history of or current cardiac conditions.****

Injection Steps

Subcutaneous Injection steps:

1 Choose & Clean the Injection Site

- Use the abdomen (3 inches from the belly button), thigh, or upper arm. Rotate sites to prevent irritation. Clean the area with an alcohol swab and let it dry.

2 Inject

- Pinch 1 to 2 inches of skin, insert the needle at a 90° angle, and slowly push the plunger down.

3 Remove the Needle & Dispose

- Pull the needle out at the same angle, apply light pressure with gauze (don't rub), and dispose of the syringe in a sharps container.

4 Monitor for Reactions

- Mild redness or soreness is normal. Seek medical help if you experience severe pain, swelling, or an allergic reaction.

Intramuscular Injection steps:

1 Choose & Clean the Injection Site

- Use the thigh (vastus lateralis), upper arm (deltoid), or glute (ventrogluteal or dorsogluteal muscle).
  - Rotate sites to prevent soreness. Clean the area with an alcohol swab and let it dry.

2 Inject

- Stretch the skin taut, hold the syringe like a dart at a 90° angle, and insert the needle quickly and smoothly. Slowly push the plunger down to inject.

3 Remove the Needle & Dispose

- Pull the needle straight out, apply light pressure with gauze (don't rub), and dispose of the syringe in a sharps container.

4 Monitor for Reactions

- Mild soreness or redness is normal. Seek medical help if you experience severe pain, swelling, or an allergic reaction.

PT-141 Mechanism of Action

- **Melanocortin Receptor Activation:**
  - PT-141 is a selective melanocortin receptor agonist that primarily targets melanocortin-3 (MC3R) and melanocortin-4 (MC4R) receptors located within the central nervous system. Activation of these receptors modulates neuroendocrine circuits involved in sexual desire and arousal.

- **Central Nervous System Pathways:**
  - Unlike phosphodiesterase inhibitors that act via peripheral vasodilation, PT-141 operates centrally by influencing hypothalamic pathways responsible for sexual motivation and behavior. This mechanism directly enhances sexual drive independent of vascular function.

- **Dopaminergic and Oxytocinergic Modulation:**
  - Stimulation of MC4R receptors enhances dopaminergic neurotransmission and promotes the release of oxytocin—both critical mediators of sexual arousal, bonding, and reward. This neurochemical modulation amplifies sexual desire and positive affective responses.

- **Autonomic and Neuroendocrine Regulation:**
  - PT-141 influences sympathetic nervous system output and integrates neuroendocrine signals that coordinate arousal responses. These effects result in heightened sexual readiness and improved central activation of arousal networks.

- **Distinct Mechanistic Profile:**
  - Through its central melanocortin-mediated mechanism, PT-141 provides a unique therapeutic pathway for addressing hypoactive sexual desire and arousal disorders. Its independence from nitric oxide–mediated vasodilation makes it effective in both male and female patients, including those unresponsive to PDE5 inhibitors.