

# PRESCRIPTION MONOGRAPH

---

**Compounded Active Ingredients:** BPC-157

**Form:** Injection

**Drug Class:** Synthetic pentadecapeptide

---

**Mechanism of Action**<sup>1,2</sup>: BPC-157 is a small protein fragment (peptide) with potential to help the body heal and recover. It is intended to:

- Promote angiogenic repair signals by activating VEGF-related pathways and Akt-eNOS signaling to increase endothelial NO and support microvascular repair.
  - Support connective-tissue healing by enhancing fibroblast activity and tendon/muscle repair.
  - Modulate vasomotor tone by promoting NO-dependent vascular relaxation and supporting endothelial stabilization in injury models.
  - Reduce inflammatory mediators and neuromuscular stabilization.
- 

**Indications Commonly Prescribed For:**

- Musculoskeletal injury and recovery
  - Post-surgical healing support
  - Bone & fracture healing
  - Gastrointestinal protection
  - Wound healing & tissue repair
  - Neurological support
  - Vascular/endothelial support
- 

**Before Use:** Let your doctor know if you have had any allergic reactions to injections in the past. Let your healthcare provider know if you are pregnant or breast feeding. Let your healthcare provider know of all supplements you are currently taking.

---

**Contraindications:**

- Active malignancy
  - Hypersensitivity to peptide or components
- 

**Cautions:** Take care when injecting the compounded preparation into only specified areas from your healthcare provider. Check the vial for any cloudiness or discoloration before use

---

**Warnings and Precautions:**

- Theoretical cancer risk: Angiogenesis-promoting properties could promote tumor growth in susceptible individuals.
  - Coagulation effects: Potential influence on clotting or vascular function warrants caution in patients with clotting disorders or those on anticoagulants.
  - Autoimmune disorders: Consider immune modulation risks with chronic peptide use
  - Cardiovascular disease: Monitor blood pressure due to potential NO interaction
-

# PRESCRIPTION MONOGRAPH

---

**Adverse Reactions:** If you experience any side effects or adverse reactions, including those not listed, please contact your healthcare provider. Seek emergency care if symptoms are severe.

## Common:

- Nausea, abdominal discomfort
- Injection site reactions
- Dizziness, headache
- Fatigue
- Feelings of hot/cold
- Flushing
- Sleep disturbances
- Appetite changes

## Serious, but Rare:

- Pathologic angiogenesis
  - Toxic metabolite formation
  - Changes in blood pressure
  - Overproduction of nitric oxide
  - Changes in coagulation or vascular response
  - Immune modulation
- 

## Interactions:

- Caution with other investigational peptides or agents affecting angiogenesis/NO pathways
  - Corticosteroids such as Prednisone, can decrease the effectiveness of BPC-157
- 

## Use in Specific Populations:

- Pregnancy/lactation: Avoid; no data.
  - Pediatrics: Avoid; no data.
  - Oncology history: Avoid; pending data due to pro-angiogenic signaling.
  - Athletes: Prohibited substance (WADA S0).
  - Older adults: May support soft-tissue healing but monitor closely.
- 

## Storage:

- Refrigerate at 2°C to 8°C (36°F to 46°F)
  - Can be stored at room temperature (up to 30°C or 86°F) for up to 48hrs
  - Do not freeze
- 

**How to Use This Medication:** This medication is a subcutaneous injection and is delivered in a premixed liquid form. Wash your hands with soap and water before giving the injection. Wipe the rubber stopper of the vial with an alcohol swab. Take a syringe and pull the plunger down to the necessary prescribed amount. This is achieved when the plunger reaches the line for the amount prescribed. Push the needle through the rubber stopper of the vial. Push the plunger down to put air into the vial. Invert the vial and then slowly pull the plunger down past the prescribed dose. If there are bubbles in the syringe, tap the syringe to allow the air bubbles to rise to the top. Slowly push the plunger up until the tip reaches the line for the prescribed dose and removes the bubble of air. Pull the syringe out of the vial's rubber stopper. Inject at predetermined injection site as instructed by healthcare practitioner. Discard any remainder from punctured vial after 28 days.

---

## Monitoring Parameters:

- Baseline risk review: Cancer history, thrombo-oncologic risk, concurrent peptides.
  - Clinical: Wound/soft-tissue outcomes, unexpected edema or neurologic symptoms.
-

## PRESCRIPTION MONOGRAPH

---

### Citations:

1. Chang CH, Tsai WC, Lin MS, Hsu YH, Pang JH. The promoting effect of pentadecapeptide BPC 157 on tendon healing involves tendon outgrowth, cell survival, and cell migration. *Journal of Applied Physiology*. 2011 Mar;110(3):774–780. doi:10.1152/jappphysiol.00945.2010. Epub 2010 Oct 28. PMID: 21030672.
2. Sikiric P, Seiwert S, Rucman R, Turkovic B, Rokotov DS, Brcic L, Sever M, Klicek R, Radic B, Drmic D, Ilic S, Kolenc D, Aralica G, Safic H, Suran J, Rak D, Dzidic S, Vrcic H, Sebecic B. Toxicity by NSAIDs. Counteraction by stable gastric pentadecapeptide BPC 157. *Current Pharmaceutical Design*. 2013;19(1):76–83. doi:10.2174/1381612813011306010076.
3. McGuire FP, Martinez R, Lenz A, Skinner L, Cushman DM. Regeneration or Risk? A Narrative Review of BPC-157 for Musculoskeletal Healing. *Curr Rev Musculoskelet Med*. 2025;18(12):611-619. doi:10.1007/s12178-025-09990-7