

KPV

What is KPV?

KPV is a tripeptide composed of the amino acids lysine, proline, and valine. It is derived from the C-terminal end of the alpha-melanocyte-stimulating hormone (α -MSH), a peptide produced by the pituitary gland. KPV has garnered attention for its potent anti-inflammatory and antimicrobial properties. This peptide comes as a cream, injectable, and oral capsules.

Potential Benefits

1. Anti-Inflammatory Effects

- **Chronic Inflammatory Conditions:** KPV can inhibit inflammatory pathways (like NF- κ B) and reduce pro-inflammatory cytokine production
- **Systemic Inflammation:** KPV's systemic anti-inflammatory effects may benefit individuals with metabolic or autoimmune disorders.

2. Gut Health and Gastrointestinal Support

- **Healing Gut Lining:** Its anti-inflammatory action supports the repair and maintenance of the gut lining, helping with conditions like leaky gut syndrome.
- **Symptom Relief in IBD:** Can reduce pain, diarrhea, and discomfort in patients with conditions like Crohn's disease and ulcerative colitis.
- **Modulation of Gut Microbiota:** The peptide may indirectly support a healthy microbiome by reducing inflammation and infection in the gut.

3. Antimicrobial Properties

- **Fighting Pathogens:** Bacteria like *Staphylococcus aureus* and Fungi like *Candida albicans*.
- **Reducing Infection Risk:** Particularly useful for wounds, burns, and post-surgical care where infection risk is high.

4. Skin and Wound Healing

- **Accelerated Wound Healing:** Promotes faster closure of wounds and regeneration of tissue.
- **Reduced Scarring:** Modulates collagen metabolism to minimize scar formation.
- **Treatment for Skin Conditions:** Eczema, Psoriasis, Acne
- **Burn and Ulcer Management:** Enhances healing in burns and chronic ulcers.

5. Pain Management

- **Reducing Pain from Inflammation:** Its anti-inflammatory properties can alleviate pain associated with inflammatory conditions like arthritis or IBD.
- **Post-Surgical Recovery:** May reduce inflammation and pain after surgery.

6. Support for Autoimmune Conditions

- **Immune Modulation:** KPV's ability to reduce inflammation without suppressing the immune system makes it a candidate for managing autoimmune diseases, including: Lupus, Rheumatoid Arthritis, and Multiple Sclerosis

7. Potential Role in Neurological Health

- **Brain Inflammation:** Preliminary evidence suggests it might help reduce neuroinflammation, potentially benefiting conditions like Alzheimer's disease or traumatic brain injury.

8. Anti-Aging and Wellness

- **Skin Health:** By improving skin healing and reducing inflammation, KPV can contribute to healthier, more youthful skin.
- **Systemic Inflammation Reduction:** Reducing chronic low-grade inflammation ("inflammaging") may improve overall health and longevity.

Forms of Use

- **Oral Capsules:** For systemic benefits like gut health and systemic inflammation.
- **Topical Creams:** For skin conditions like acne, psoriasis, and rosacea; wounds, or burns.
- **Injectable Form:** For precise and targeted therapeutic interventions and systemic inflammation.

Potential Side Effects and Precautions

KPV is generally well-tolerated, and research to date has not identified significant or severe side effects. However, as with any therapeutic peptide, there may be potential risks or adverse effects depending on the route of administration, dosage, and individual variability.

1. Mild Side Effects

- **Injection Site Reactions** (for injectable forms):
 - Redness, swelling, or irritation at the injection site.
 - Temporary discomfort or soreness.
- **Gastrointestinal Symptoms** (for oral forms):
 - Mild nausea.

- Diarrhea or changes in bowel habits.
- **Skin Reactions** (for topical forms):
 - Itching or irritation in sensitive individuals.

2. Potential Allergic Reactions

- While rare, hypersensitivity or allergic reactions to KPV or its components are possible, leading to:
 - Rash or itching.
 - Swelling of the face, lips, or tongue.
 - Difficulty breathing (seek medical attention immediately if this occurs).

3. Overdose Concerns

- Excessive doses might theoretically exacerbate immune suppression or inflammation regulation, though this has not been extensively studied in humans.

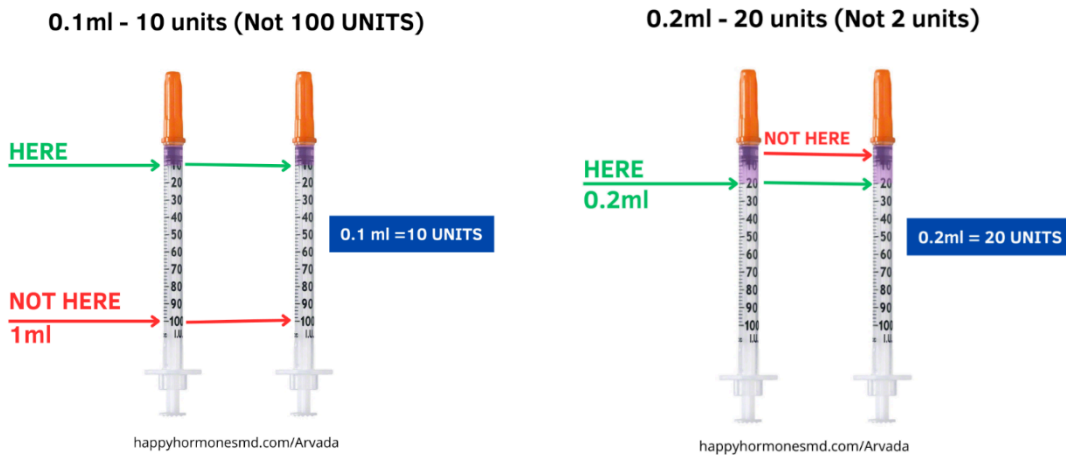
4. Individual Sensitivities

- **Immune Response Variability:** In people with preexisting immune system disorders, KPV might theoretically interact with immune function in unpredictable ways.
- **Preexisting Conditions:** Those with conditions like severe liver or kidney disease should consult a healthcare provider as metabolism and clearance could be affected.

Dosage Guidelines

Injectable

0.1mg – 0.2mg (0.1ml – 0.2ml or 10-20 units) SQ (subcutaneously) daily until desired outcome achieved.



Oral

KPV/BPC-157 500mcg/500mcg – One capsule daily.

Cost

Injectable KPV is currently only available as a research peptide. Please see document titled “Research Peptide Information” in the Education Folder under Records in the patient portal.

Injectable KPV 5mg Vial (2mg/ml): \$118.50 (includes shipping and bacteriostatic water). One vial = 12-25 doses.

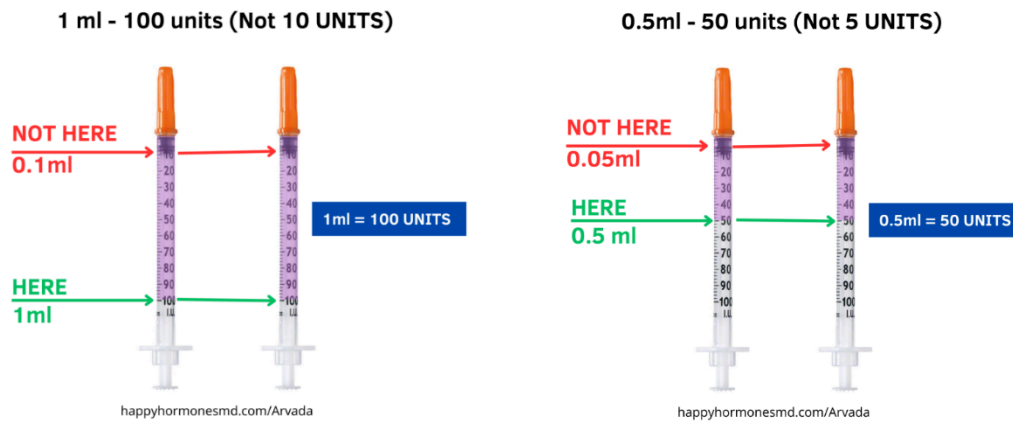
Oral KPV/BPC-157 0.5mg/0.5mg – 30 Capsules: \$98.10. Use the following link. <https://link.biote.info/cgy>

Reconstitution Instructions

IMPORTANT:

- Follow the instructions below regarding the amount of bacteriostatic water to use when reconstituting the peptide. DO NOT follow the instructions that come with the peptide.
- Do NOT throw away the vial of bacteriostatic water!!! It is a multiuse vial and can be used for your next order!

Inject **2.5ml of bacteriostatic water** into the vial (**2.5ml = 250 units**). You will need to inject 2 full 1ml syringes and one 0.5ml syringe of water into the vial.



- See the **document** titled “*Reconstituting Medications in Powder Form*” in the Education Folder in the patient portal.
- See the following Instructional **videos** in the Education Folder in the patient portal:
 - “*Reconstituting Powdered Medications*”
 - “*Injection Video – Introduction*”
 - “*Injection Video – Drawing Up the Medication*”
 - “*Injection Video – Administering the Medication*”

Storage and Stability

- Vials are shipped as **lyophilized powder**, requiring no refrigeration during shipping.
- In Lyophilized Form:
 - Stable for up to 3 years in the freezer and 2 years in the refrigerator.
 - Protect from light.
- Once Reconstituted:
 - Stable for 6 weeks.
 - Must be refrigerated and kept away from light.
 - Avoid placing vials in the refrigerator door to prevent degradation from frequent temperature changes.

Important Disclosures

- These statements have not been evaluated by the US Food and Drug Administration (FDA).
 - Not intended to diagnose, treat, cure, or prevent any disease.
 - Compounded drugs and research peptides are not FDA-approved but are produced under strict quality control measures.
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Quality Assurance

- All peptides are subjected to third-party testing with publicly available Certificates of Analysis (COA).
- Testing includes:
 - RP-HPLC (Reversed-Phase High-Performance Liquid Chromatography)
 - Mass Spectrometry (MS)
 - Sterility Testing
 - Additional tests meeting or exceeding U.S. Pharmacopeia (USP) and USP-National Formulary (NF) regulations.
- The manufacturer ensures quality, safety, and efficacy, complying with regulatory standards.