SIGNAL PEPTIDE ACADEMY
LEARN · UNDERSTAND · APPLY

BPC-157

Synthetic pentadecapeptide derived from a gastric protein

CARD 02

CLASS	CLINICAL CATEGORY	EVIDENCE LEVEL	OVERALL STATUS
Cytoprotective peptide	Tissue repair / gastrointestinal	Low / experimental	Not approved — investigational use



KEY APPLICATIONS

- **Tissue healing** — Experimental models
- **Tendon and ligament** — Musculoskeletal
- **Gastrointestinal mucosa** — Cytoprotection
- **Inflammation research** — Preclinical data

⚠ **Studied for: tissue repair and gut-lining protection.** No randomized human trials establish efficacy; evidence is mostly from animal studies.

HOW IT WORKS IN THE BODY

BPC-157 → Repair signaling → Angiogenesis and fibroblasts → Tissue repair

- **Cytoprotective** action described in experimental models.
- Modulates **angiogenesis and fibroblast migration**.
- Most studied in the **gastrointestinal mucosa** and connective tissue.
- **Human data are limited**; the mechanism is not fully clarified.

QUICK PRACTICAL INFO

HALF-LIFE	ROUTES STUDIED
Not established in humans	Oral and injectable (research)
PHARMACOKINETICS	**STABILITY**
Limited human data	Prone to peptide degradation
INTERACTIONS	**MONITORING**
Not determined	GI symptoms and clinical course

EVIDENCE & SAFETY

EVIDENCE

LOW
EXPERIMENTAL

- Mostly **preclinical data**.
- Human trials are **scarce**.
- Therapeutic efficacy **not established**.

CLINICAL CAUTION

- Long-term safety **not established**.
- Avoid use **without regulatory backing**.
- **Variable quality** in unregulated products.
- Caution in **pregnancy and lactation**.

REGULATORY STATUS

FDA	EMA	ANVISA	WADA	Research	503A (US)
Not approved as a drug	Status not confirmed	Status not confirmed	Check the current list	Yes, limited data	Panel vote Jul 2026; rule pending

CLINICAL READ IN 10 SECONDS

- Peptide associated with **tissue repair**.
- Widely sought for **injuries** and **GI mucosa**.
- **Human evidence is limited**.
- **Not a validated therapy** for routine use.

KEY REFERENCES

Sikiric et al., 2018 — Curr Pharm Des (review)

Gwyer et al., 2019 — Cell Tissue Res (review)

PubMed — reviews on BPC-157 and tissue repair

WADA — Prohibited List of Substances and Methods

Technical, informational content. It does not replace individualized clinical judgment or constitute a recommendation. No dose, protocol or source is provided.