BPC-157

Pentadecapeptide | 15 Amino Acids | Gastric Origin | Body Protection Compound

COMPOUND OVERVIEW

BPC-157 is a stable synthetic pentadecapeptide derived from a sequence within the human gastric protein BPC. It is notable for resistance to enzymatic degradation, contributing to stability in research settings. It is among the more extensively studied research peptides across tissue repair and gastroprotection models.

MECHANISM OF ACTION

BPC-157 promotes angiogenesis by stimulating VEGF expression and upregulating GH receptor sensitivity in target tissues. It modulates nitric oxide synthesis, contributing to vasodilation and nutrient delivery to areas with limited natural blood supply. Gastroprotective effects appear to involve COX-2 pathway modulation and mucosal protection mechanisms.

RESEARCH APPLICATIONS

- Tendon and ligament repair models (angiogenesis induction)
- Gastric mucosal protection and gut integrity research
- VEGF and GH receptor upregulation studies
- Nitric oxide pathway modulation research

EVIDENCE STATUS & KNOWN LIMITATIONS

> ***Evidence Status:*** *BPC-157 has a substantial body of animal model research across multiple tissue types. Controlled human trials are limited. Most findings are preclinical; direct extrapolation to human outcomes requires caution. No formal regulatory approval for therapeutic use exists in any major jurisdiction.*

ANALYTICAL & STORAGE DATA

PURITY	**>99.8% by HPLC/MS**	PHYSICAL FORM	**Lyophilised White Powder**
STORAGE	**2-8 C post-reconstitution**	STABILITY	**28 days post-reconstitution**
RECONSTITUTION	**Bacteriostatic Water (USP)**	BATCH DOCS	**Available on Request**

RECONSTITUTION NOTE

Introduce reconstitution solvent against the interior vial wall without direct contact with the lyophilised powder. Allow natural dissolution without agitation. Solution should become crystal clear. Refrigerate immediately. Use within 28 days of reconstitution.

REGULATORY CLASSIFICATION: All BioUnfolding compounds are strictly intended for laboratory evaluation and in-vitro analysis. These materials are not intended for human consumption, veterinary use, or therapeutic application. Researchers are solely responsible for compliance with applicable local regulations including SAHPRA guidelines.

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