ReBiohub® GPO

The core functional tripeptide derived from collagen

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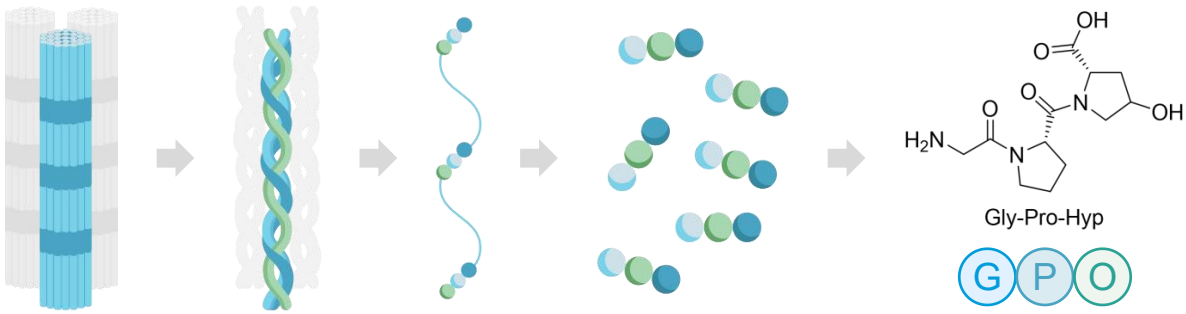
Oral beauty Joint health

ReBiohub®GPO

Common name	CAS	Structure	Molecular weight	Appearance	Purity
Collagen tripeptide	2239-67-0	Gly-Pro-Hyp	285.3	White powder	≥98%

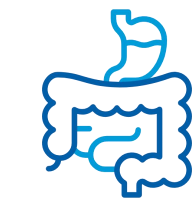
Scientific background

Collagen is widely distributed in tissues such as skin, bones, and cartilage. The collagen is composed of highly repetitive Gly-X-Y sequences, among which Gly-Pro-Hyp (GPO) represents the most abundant and core functional fragment, which is essential for maintaining the structural stability of collagen. In natural collagen peptides, its content is typically low (approximately 3%). Reseach shows orally administered GPO tripeptides are efficiently absorbed into the bloodstream and stimulate collagen, hyaluronic acid, and elastin synthesis, enhancing skin elasticity, hydration, and barrier function. Additionally, GPO promotes cartilage repair and bone metabolism, effectively alleviating osteoarthritis symptoms.

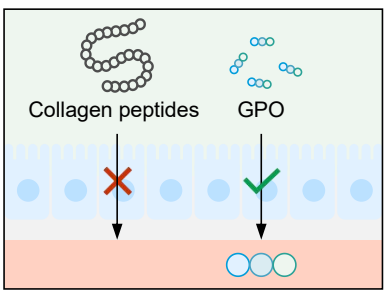


Collagen fiber → Collagen → Collagen peptides → Collagen tripeptide → ReBiohub®GPO

Functions



Bioavailable via intact intestinal absorption



- Restore skin moisture levels and strengthen skin barrier
- Boost collagen synthesis to enhance skin elasticity and firmness
- Reduce fine lines and repair sun damage
- Promote cartilage recovery and support lasting joint comfort

Features

	Collagen peptides	ReBiohub® GPO
Source	Hydrolyzed	Synthetic
Structure	Mixed polypeptides	Specific structure
Molecular weight	Hundreds to thousands	285.3
GPO content	~3%	95%
Mechanism	Supply amino acids	Specific targets
Bioavailability	Absorbed after digestion	Absorbed intact via intestine

Application info

Efficacy	Anti-wrinkle, anti-aging, joint care
Dosage	20–50 mg/day
Formulation suggestion	Ergothioneine, glutathione, NMN, etc

Reference
M. Yazaki et al., *J. Agric. Food Chem.*, 2017, 65, 2315−2322; D. Martínez-Puig et al., *Nutrients*, 2023, 15, 1332; M. Lee et al., *Food Funct.*, 2023, 14, 3196–3207; H.-J. Lee et al., *Biosci. Biotechnol. Biochem.*, 2019, 83, 1146–1156; D.-U. Kim et al., *Nutrients*, 2018, 10, 826

About us

Readline is a biotech company focusing on developing and manufacturing active ingredients for cosmetics, nutritional supplements and pharmaceuticals in a green and sustainable manner. We are driven by a shared value to enable customer success with high quality green active ingredients, from making to using, from health to beauty.

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