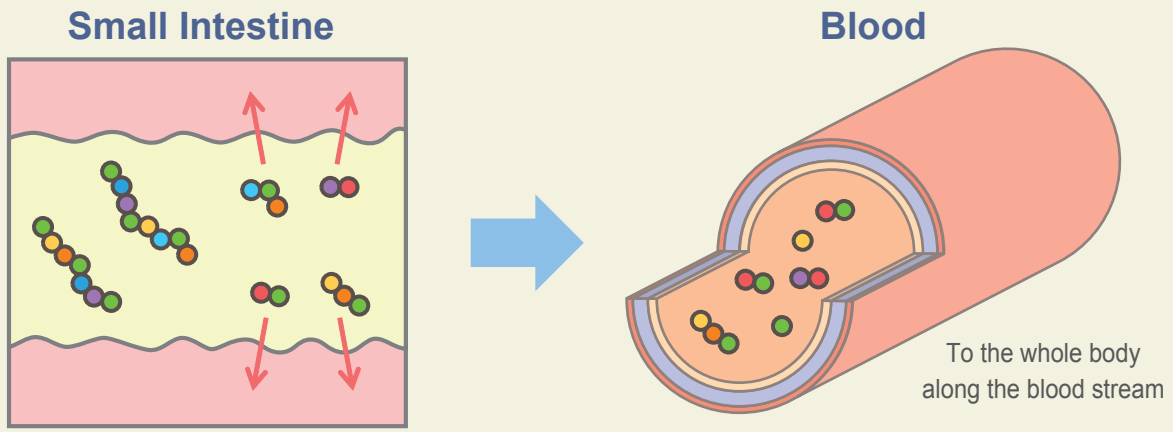
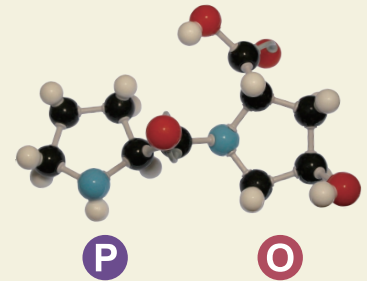
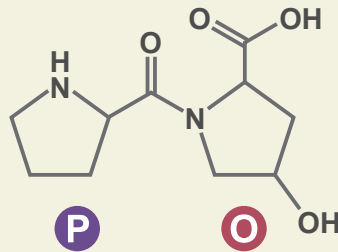


# Absorption of PO&OG into the blood

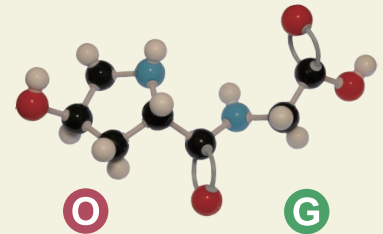
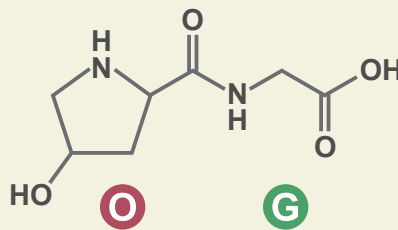


Previously, it was believed that collagen is broken down by the body, like common proteins, into amino acids and absorbed in the small intestine. However, when collagen is taken, it is absorbed not only as amino acids but also in the form of dipeptides Pro-Hyp (PO) and Hyp-Gly (OG). PO and OG may be the key to cellular stimulation and activation.

## Stability of PO & OG



Its twisted structure makes it difficult for enzymes to cleave peptide bonds.



The small size of Gly makes the structure of Hyp-Gly very flexible, making it difficult for enzymes to locate and cleave the peptide bond.

## Skin Permeability of PO & OG

Both Pro-Hyp (PO) and Hyp-Gly (OG) were confirmed to permeate the skin. Although the speed was different, permeation was also confirmed in the intact skin where the stratum corneum remained.

By using supplements and cosmetics containing collagen peptides, the synergistic effect supports beauty.

A skin without stratum corneum was set in a Franz cell and measured using a synthetic peptide solution.

