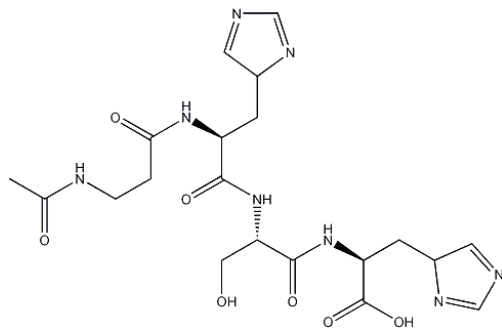


# Technical Data Sheet

**Product Name:** Acetyl Tetrapeptide-5 (98% Powder)

**INCI Name:** Acetyl Tetrapeptide-5

**Structure:**



## Product Properties:

Molecular Formula: C<sub>20</sub>H<sub>28</sub>N<sub>8</sub>O<sub>7</sub>  
Molecular Weight : 492.49  
CAS Number : 820959-17-9  
EINECS : 1312995-182-4

## Specification:

| Items                    | Specifications                   |
|--------------------------|----------------------------------|
| Appearance               | White powder or off-white powder |
| Molecular Ion Mass       | 492.49 ± 1.0                     |
| Purity (HPLC)            | Not less than 98.0 %             |
| Water (K.F.)             | Not more than 10.0 %             |
| Acetic Acid (HPLC)       | <15%                             |
| Related Substances(HPLC) | Total impurities: <2.0%          |
|                          | Single impurity: <1.0%           |

Acetyl Tetrapeptide-5 is a synthetic signaling peptide designed to target periorbital puffiness and dark circles by mimicking natural skin repair processes.

**Function:**

- ❖ Microcirculation Improvement: Activates VEGF signaling pathways to promote capillary health;
- ❖ Decongestion: Inhibits overactive Na<sup>+</sup>/K<sup>+</sup> pumps to regulate fluid balance;
- ❖ Collagen Enhancement: Stimulates Type I & IV collagen production to thicken dermal-epidermal junction;
- ❖ Soothing Recovery: Downregulates IL-6 and TNF- $\alpha$  inflammatory cytokines.

**Application:**

- ❖ Eye Creams/Serums: Targets dark circles, bags, and puffiness;
- ❖ Anti-Aging Creams: Strengthens delicate areas like nasolabial folds;
- ❖ Post-Treatment Care: Accelerates bruise resolution post-procedures;
- ❖ Concealers: Functional additive for long-lasting coverage;
- ❖ Premium Masks: Intensive recovery for fatigue-induced eye concerns.

**Recommended use level:** 0.001%-0.1% (Water-soluble)

**Package:**

1g/bottle; Or as per customer requirements.

**Storage:**

Store at a temperature of 2-8°C, keep sealed and away from light.

**Shelf life:**

Two years.

**Disclaimer:**

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