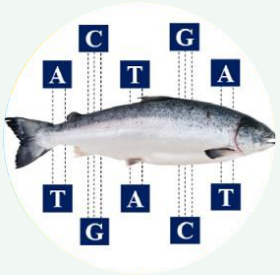
What is PDRN?

Polydeoxyribonucleotide | Origin, structure and formulation

DNA FRAGMENT COMPLEX



50 to 2,000 bp

DNA fragment length

A base pair (bp) is a unit used to describe the length of a DNA fragment.

WHAT IS PDRN?

PDRN stands for polydeoxyribonucleotide. It is a mixture of short DNA fragments obtained from salmon or trout, used in skin regeneration, tissue repair and anti-aging.

WHY DNA FRAGMENTS?

DNA is built from nucleotides. PDRN supplies DNA-derived materials that cells can reuse during DNA synthesis and repair, alongside signaling effects that support tissue regeneration.

FROM SOURCE TO SKINCARE

01 Source: salmon and trout DNA

PDRN is sourced from the DNA of salmon (Oncorhynchus keta) and trout (Oncorhynchus mykiss), collected from milt (fish semen) or reproductive tissue.

02 Extract: a mixture of DNA fragments

The extracted PDRN is a low-molecular-weight DNA complex, with fragments ranging from 50 to 2,000 base pairs.

03 Formulate: an ingredient for skincare

The DNA-derived ingredient is incorporated into formulas for treatments and daily care. In Lysonome product ingredient lists, it is identified as Sodium DNA.

LYSONOME PDRN LINE

50,000ppm PDRN

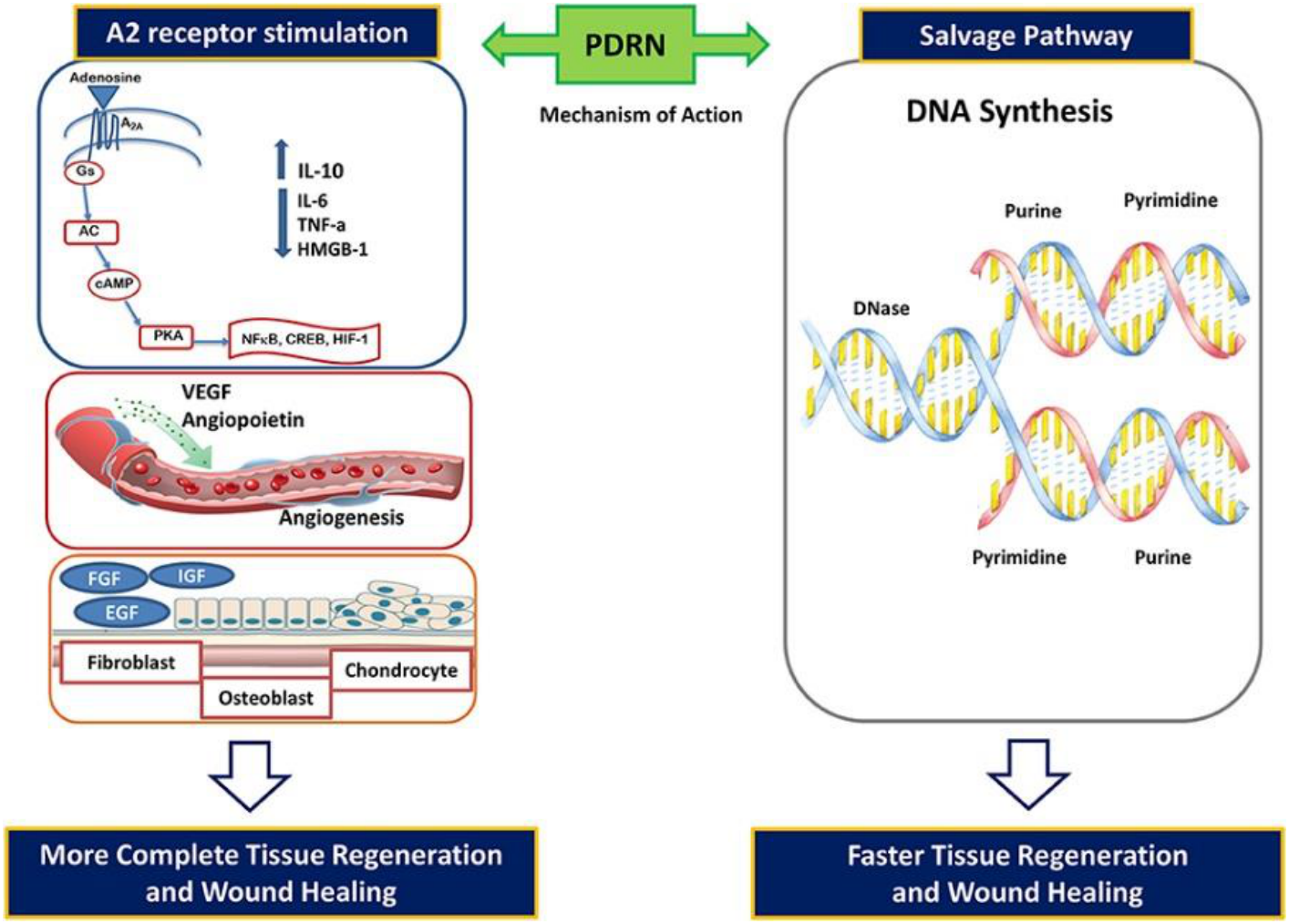
Contains 500ppm Sodium DNA.

Sources: Lysonome presentation, pp. 7-9, 14; PDRN trifold and INCI lists.

How PDRN works

Two complementary pathways for regeneration

PDRN acts through two complementary mechanisms: cell signaling and the DNA salvage pathway. Together, these processes support tissue recovery, cell growth and renewal.



Mechanism-of-action graphic from the Lysonome presentation.

01 CELL SIGNALING

Adenosine A2A receptor

PDRN stimulates the adenosine A2A receptor, affecting signals involved in inflammation and repair. These signals support blood-vessel formation and fibroblast activity. Fibroblasts are cells that produce collagen.

02 DNA SALVAGE

Reusing DNA building blocks

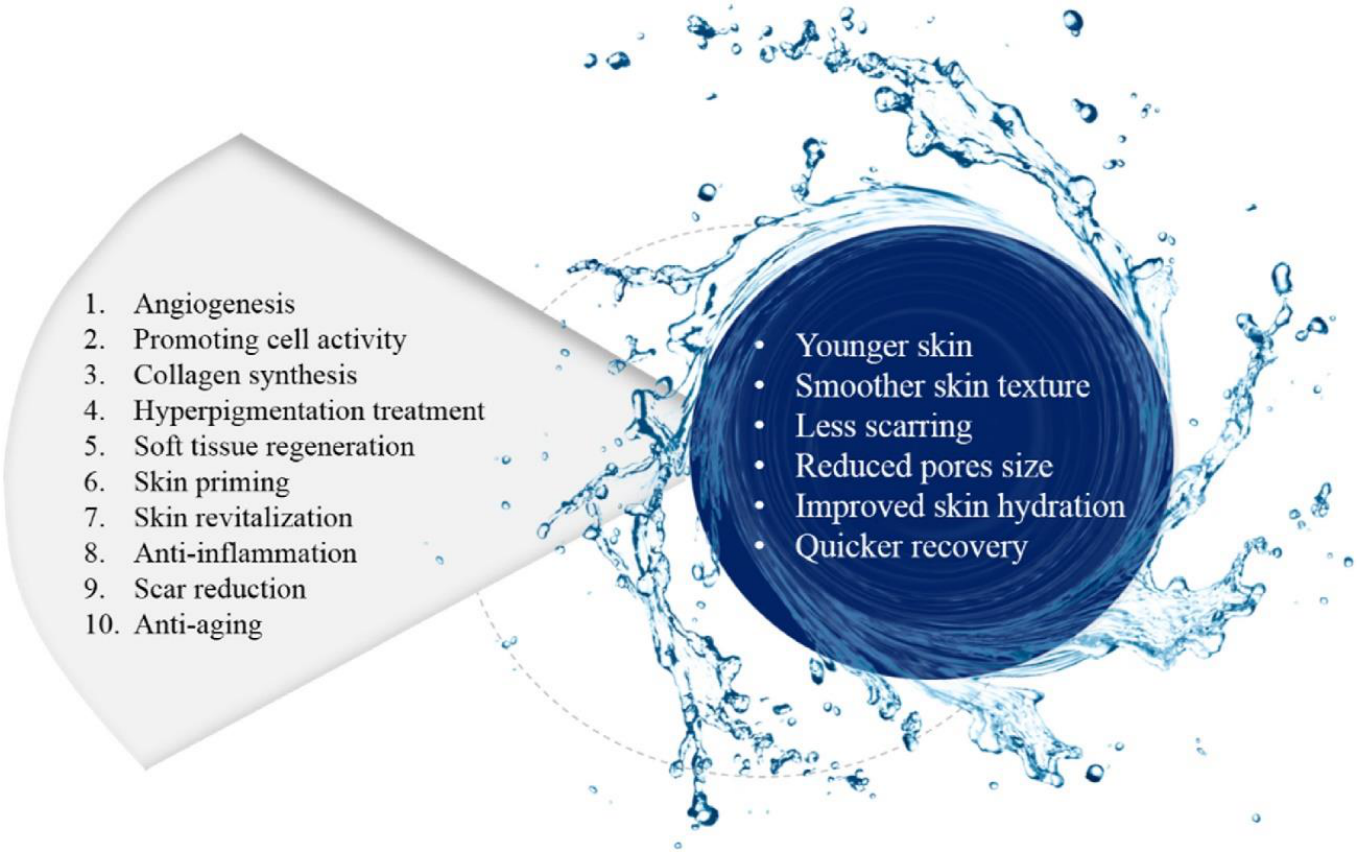
PDRN-derived nucleotides and nucleosides supply building blocks for DNA synthesis. Cells can reuse these materials through the salvage pathway to support growth, regeneration and wound healing.

Sources: Lysonome presentation, pp. 8, 11, 13-14. Original graphic: p. 11.

Skin benefits & uses

From cell activity and repair to facial and daily care

PDRN's effects on cell activity and repair support smoother skin texture, improved hydration, elasticity and recovery.



Skin effects and cosmetic outcomes summarized in the Lysonome presentation.

IN LYSONOME SKINCARE

FACIAL TREATMENTS

Advance Fluid and Define Complex are used in facial treatments, with or without microneedling. See the separate protocol sheet for treatment settings.

RECOVERY CARE

Retain Bio-Cellulose Mask provides calming care. Cura Cream supports hydration and regeneration. Follow the protocol sheet for post-treatment timing.

DAILY SKIN CARE

Peak Bubble Foam, Abound Mist, Cura Cream and the masks support cleansing, hydration and ongoing care. See each product sheet for use.

Sources: Lysonome presentation, pp. 9, 12-14, 18; product sheets and protocol.