ActivPower IRX

HUMAN KNOWLEDGE BASE • INGREDIENT SCIENCE

High Molecular Weight Hyaluronic Acid for Human Joint & Skin Wellness

A naturally occurring joint-lubricating molecule (≈1 million Daltons) studied to support mobility, tissue hydration, and skin.

IRx-ZEUS® | ≈1 Million Daltons | Synovial & Skin Support

What Is High Molecular Weight Hyaluronic Acid?

Hyaluronic acid (HA) is a naturally occurring substance found throughout the body — particularly in joints, connective tissues, skin, and eyes — where it helps tissues retain water, maintain elasticity, and support normal function. **High Molecular Weight Hyaluronic Acid (HMW-HA)**, roughly one million Daltons or greater, is included in **IRx-ZEUS® for humans** to support mobility, joint wellness, skin health, and overall quality of life.

What Makes HMW-HA Unique

HA exists in a range of molecular sizes, and molecular weight may influence biological behavior. HMW-HA is naturally abundant in healthy tissues and associated with joint lubrication, tissue hydration, connective-tissue integrity, skin moisture retention, and support of normal inflammatory balance (Cowman et al., 2015; Litwiniuk et al., 2016).

Joint Health & Mobility

HA is a major component of synovial fluid, and endogenous levels may decline with aging and joint degeneration. Several human clinical studies have reported improvements following oral HA supplementation in measures related to:

- Joint comfort
- Mobility
- Physical function
- Activities of daily living

These outcomes were reported by Tashiro et al. (2012) and Kalman et al. (2008), supporting HA's role in helping maintain normal lubrication and healthy connective-tissue function.

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Skin Health & Appearance

Skin contains roughly half of the body's hyaluronic acid reserves, where HA maintains hydration within the extracellular matrix. Human studies have reported improvements in skin hydration and appearance following oral HA supplementation (Oe et al., 2017; Kawada et al., 2014).

Tissue Health, Mucosal Wellness & Aging

HA plays a recognized role in normal tissue-repair processes and contributes to the integrity of epithelial and mucosal surfaces. Evidence in respiratory and wound-healing contexts remains preliminary. The strongest healthy-aging rationale remains support of mobility, skin wellness, and physical function; there is no evidence that oral HA extends lifespan.

Safety Profile

Published research generally reports oral hyaluronic acid supplementation to be well tolerated, with uncommon and typically mild side effects. Individuals with medical conditions or taking medications should consult a healthcare professional.

The ActivPower Perspective

ActivPower includes High Molecular Weight Hyaluronic Acid in IRx-ZEUS® for humans as part of comprehensive formulations intended to support mobility, healthy movement, skin wellness, and overall quality of life.

FEATURED IN

IRx-ZEUS® for Humans

Power Your Possible™

Selected References — Human Literature

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3. Oe M, Sakai S, Yoshida H, et al. Oral hyaluronan relieves wrinkles and improves skin condition. *Clin Cosmet Investig Dermatol.* 2017;10:267–273.
4. Kawada C, Yoshida T, Yoshida H, et al. Ingested hyaluronan moisturizes dry skin. *Nutr J.* 2014;13:70.
5. Cowman MK, Lee HG, Schwertfeger KL, McCarthy JB, Turley EA. The content and size of hyaluronan in biological fluids and tissues. *Front Immunol.* 2015;6:261.
6. Litwiniuk M, Krejner A, Speyrer MS, Gauto AR, Grzela T. Hyaluronic acid in inflammation and tissue regeneration. *Wounds.* 2016;28(3):78–88.

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