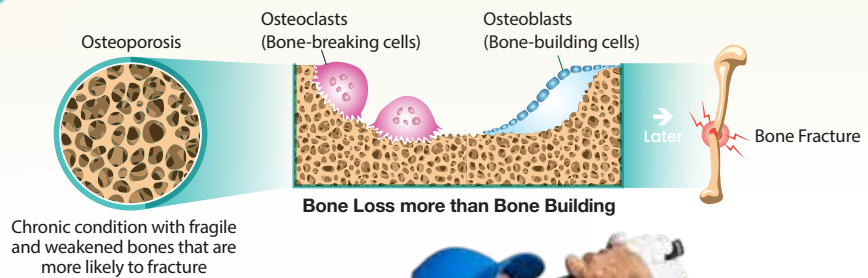
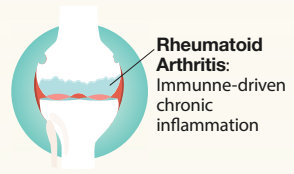
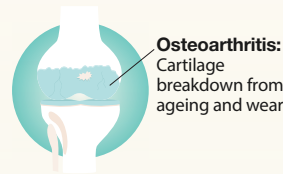


Stronger Bones. Healthier Joints. Powered by DavosLife E3 Tocotrienols

A Bioactive Vitamin E Supporting Bone Remodeling and Joint Integrity



Cartilage Degradation

Cartilage Cell Health

Oxidative Stress

Cartilage Cell Repair Ability

DavosLife E3 Tocotrienols

Oxidative Stress

Inflammation

Bone Metabolism Pathway (Mevalonate): Incur Bone Loss

Bone Signalling (Wnt): Suppress Bone Loss

Bone Building (Osteoblast) Activities

Bone Breaking (Osteoclast) Activities

Bone Loss

Tocotrienols support joint health by reducing oxidative stress and promoting cartilage's self-repair.

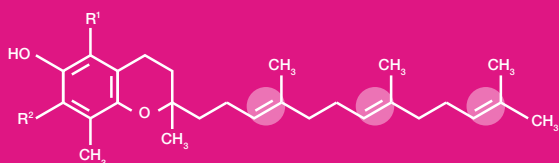
Tocotrienols support bone health by protecting bone cells and maintaining healthy bone remodeling.

Tocotrienols, The Extraordinary Vitamin E

Vitamin E is not just a single molecule, but a family of eight fat-soluble substances that are sub-divided into two classes of structurally-similar molecules. These two classes are tocopherol and tocotrienol, each of which have four structurally and chemically diverse molecules termed as alpha (α), beta (β), delta (δ), and gamma (γ) respectively.



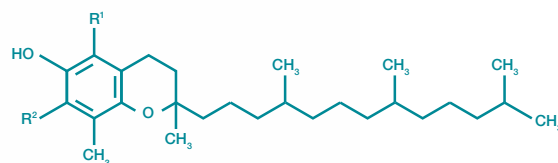
Tocotrienols have up to **60X** more antioxidative potency compared to α -Tocopherol, and have **unique anti-inflammatory properties** not seen in α -Tocopherol¹.



TOCOTRIENOLS

Tocotrienols have unsaturated isoprenoid side chains with three double bonds. This unique property gives it better flexibility with a higher efficiency of penetrating into the cell membrane. Tocotrienols are potent **ANTIOXIDANTS*** with unique **ANTI-INFLAMMATORY** properties.

: $R' = CH_3$, $R'' = CH_3$
: $R' = CH_3$, $R'' = H$
: $R' = H$, $R'' = CH_3$
: $R' = H$, $R'' = H$



TOCOPHEROLS

Tocopherols, in contrast, have saturated side chains. They also function as antioxidants, but this chemical structure gives them a lower antioxidative capacity as compared to tocotrienols.

: $R' = CH_3$, $R'' = CH_3$
: $R' = CH_3$, $R'' = H$
: $R' = H$, $R'' = CH_3$
: $R' = H$, $R'' = H$

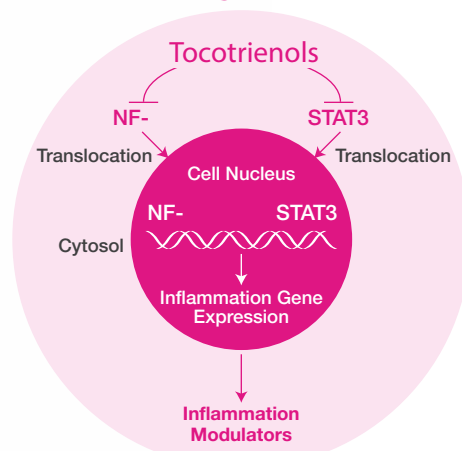
Tocotrienols have Unique Properties that Positively Impact Different Areas of the Body

Tocotrienols are naturally sourced from plant species like oil palm, rice and Annatto seed.

Each analogue of tocotrienol are functionally unique, with α -, β -, δ -, and γ -tocotrienol each exerting different beneficial effects on health and disease that are separate from the biological functions of α -tocopherol.



Potent Anti-Inflammatory Agent



Tocotrienols have pronounced and potent effects on NF- κ B (key master regulator of inflammation) and STAT3 (master inflammatory transcriptional factor) to reduce inflammation^{2,3,4}.

Reference:
1. Serbinova, E., Kagan, V., Han, D., and Packer, L. (1991). Free radical recycling and intramembrane mobility in the antioxidant properties of alpha-tocopherol and alpha-tocotrienol. *Free Radical Biology and Medicine*, 10: 263 – 275.
2. Guang et al. (2015). *Am J Transl Res* 7(9): 1612-1620
3. Ng et al. (2012). *Food Chemistry*; 134: 920-925
4. Aggarwal et al. (2010). *Biochem Pharmacol*; 80(11): 1613-1631.