



RiviK2[®]—Naturally Fermented Vitamin K2 with Ultra High Purity >98%



ABOUT

Vitamin K2 has several subtypes, which differ in isoprenoid chain length. Among the several vitamin K homologs, only MK-7 (a form of vitamin K2) can promote γ -carboxylation of extrahepatic vitamin K-dependent proteins (VKDPs), such as Osteocalcin (OC), and the Matrix Gla Protein (MGP) at a nutritional dose around the Recommended Dietary Intake (RDI). RiviK2[®] MK-7 has higher efficacy due to its higher bioavailability and longer half-life than other vitamin K homologs.^[1] Like most biological molecules, MK-7 can exhibit interesting structural characteristics. Specifically, MK-7 can exist as geometric isomers that exist in cis, trans, and cis-trans forms. However, only the all-trans form is biologically significant.^[2]



Benefits

- Preserving bone mass and strength by utilizing calcium properly^[3]
- Improving cardiovascular health by inhibiting calcium deposits in the blood vessels^[4]
- Reducing nerve aches, numbness and tingling^[5]
- Reducing inflammation and oxidative stress^[6]
- Increasing ATP production^[7]

Our Advantages

- All-trans K2 with Assay of MK-7 up to 98%
- Supercritical CO2 Extraction and No Solvents
- Diluted by K2 Crystals Compliant with USP Monographs
- High stability in complex formulas
- Customized Assays and Carriers upon Request

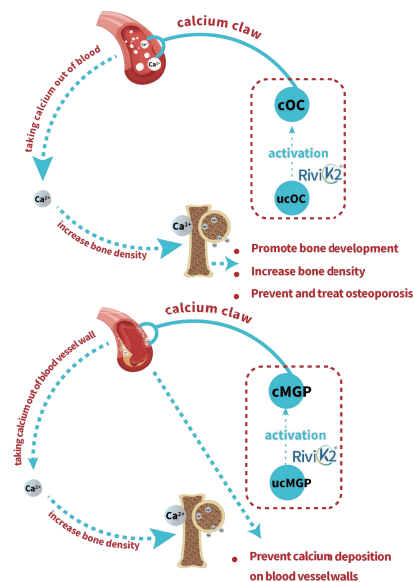


How does it work

Vitamin K2 (MK-7) functions by activating specific K-dependent proteins, primarily osteocalcin and MGP.

Osteocalcin: This non-collagenous protein is secreted by osteoblasts and plays an essential role in the formation of mineral in bone.

Matrix Gla Protein (MGP): This calcification inhibitory protein is found in numerous body tissues, but its role is most pronounced in cartilage and in arterial vessel walls.

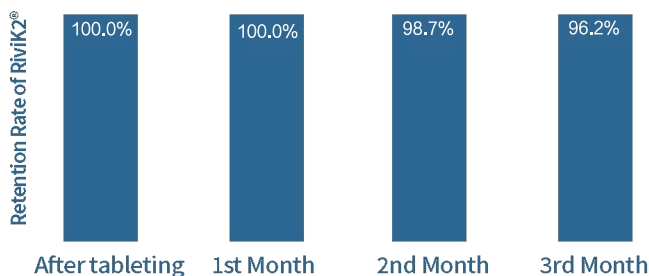


Stability Data

It shows the stability of RiviK2® in complex formulations.

Vitamin D3+K2+Ca+Mg Tablets

Formula: 5mcg D₃(as Cholecalciferol), 50mcg K₂(as MK-7), 200mg Ca(as CaCO₃)



*Conditions: Temperature 37°C ± 2°C, Humidity 75% ± 5%

Specifications

TYPES	FORMULATIONS	DOSAGE FORMS	APPLICATIONS
Rivik2® Vitamin K2 Oil 1500/2000/10000/20000ppm	Bone health: K2+D3+Calcium glycinate+ Magnesium glycinate	Softgel Liquid Gummy	Beverage Dairy Products Sports Nutrition
RiviK2® Vitamin K2 Powder 1000/2000/10000/13000ppm	Cardiovascular health: K2+CoQ10+Monacolin K+Oleuropein	Tablet Capsule Stick	Powdered Drinks Dietary Supplements Bakery&Confectionery
Rivik2® Vitamin K2 Crystalline Powder (Min.98%)	Nerve health: K2+B1+B2+B6+B12	Softgel	Cereal and Cereal Products
	Sports health: K2+Whey protein+BCAA+Creatine	Liquid Gummy	Food for Special Medical Purposes

You may claim

- Natural fermentation
- Non-GMO
- No Allergens
- Soy-Free
- Gluten-Free
- Vegan Friendly

Reference

[1]Sato T, et al. Nutrients. 2020 Mar 31;12(4):965.
 [2]Lal N, et al. Appl Microbiol Biotechnol. 2020 Apr;104(7):2765-2776.
 [3]Knapen MH, et al. Osteoporos Int. 2013 Sep;24(9):2499-507.
 [4]Knapen MH, et al. Thromb Haemost. 2015 May;113(5):1135-44.
 [5]Badmaev V, et al. EC Neurology. 2021;13(8):1-10
 [6]Adrian Kotakowski, et al. European Journal of Cell Biology, Volume 100, Issues 7–8, 2021, 151188.
 [7]Yang RY, et al. Eur Rev Med Pharmacol Sci. 2020 Oct;24(19):10181-10193.

