Vitamin A

Vitamin A is a group of unsaturated nutritional organic compounds that includes retinol, retinal, retinoic acid, and several provitamin A carotenoids (most notably beta-carotenel)

Gene

BC01

The protein encoded by this gene is a key enzyme in beta-carotene metabolism to vitamin A. It catalyzes the oxidative cleavage of β -carotene into two retinal molecules. Diseases associated with BCOI include Hypercarotenemia and Vitamin A. Deficiency. Researches revealed that higher circulating β -carotene levels in G6 homozygotes depend on carotenoid intake while TT variants showed a reduced ability to convert beta carotene.

Your Genotype

GT

Your Response

Medium

Benefits

It is essential for normal growth, skeletal development, reproduction, lactation and the maintenance of the nervous system.

It helps build and maintain good vision, strong bones, healthy teeth, skin, hair and gums.

Vitamin A in the form of beta-carotene is an antioxidant, which helps protect your cells from damage caused by free radicals.

Beta-carotene may also help protect you from developing some cancers.

A major benefit of Vitamin A is that it helps treat deficiency syndromes such as: Treats poor night vision, help in to remove extreme dryness of the eyes, help to repair dry and rough skin, fight with infectious diseases, help in immune system

Interpretation

Your genetic result indicates moderate risk for Vitamin A. This genotype in BCO1 is associated with normal conversion of α- and β-carotenes to vitamin A.

Food Source	Amount	Nutrition Value
Carrot	1 cup raw sliced	21,384 IU
Sweet potato	1 whole	18,443 IU
Spinach	1 cup raw	2,813 IU
Apricot	1 fruit	674 IU
Butter	1 Tbsp	355 IU
Eggs	1 Extra large	302 IU