



Butyrate is a molecule referred to as a short-chain fatty acid that occurs naturally in the body. Fatty acids are considered the building blocks of fats, or lipids, which the body and its cells cannot live without.

Butyrate is made by the bacteria, called Firmicutes, living in our gut, mostly by foods high in fiber.



A High Fiber Diet Helps to Support Butyrate Levels and Healthier Brain Function

Butyrate has been shown to benefit the body in many significant ways—from colon health to mitochondrial function—cutting-edge brain health research focusing on butyrate and its importance to brain health has recently been appearing in scientific journalsⁱ.

Butyrate is used for energy, especially by mucosal cells that line the wall of the colon. These cells get about 70 percent of their energy needs from butyrate. High fiber diets have been shown to increase butyrate circulating in the bloodstream, therefore supporting brain health.

Pharmacologically, butyrate has had a profoundly beneficial effect on brain disorders ranging from neurodegenerative diseases to psychological disorders.

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Researchers have discovered that butyrate appears to have multiple modes of action in the brain, including:

Brain Cellular Health

by working as an HDAC (histone deacetylase) inhibitor by protecting the DNA wrapped around proteins called histones. Bourassa states it works to "promote the expression of prosurvival, proregenerative proplasticity genes" and support brain cellular health by helping genes survive, adapt and grow rather than getting damaged.



Promotes brain-derived neurotrophic factor (BDNF), a substance that increases the

growth and differentiation of healthy neurons in the brain.

Sodium butyrate was able both to prevent and reverse the hyperactivity behavior and may support the formation of long-term memory. "



Mechanisms where butyrate may influence brain health by eating a high fiber diet

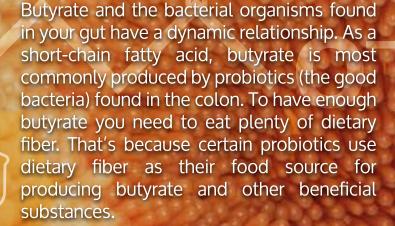
Histone Acetylation







G-protein Coupled Receptors





Microbiome Homeostasis





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