

Short-chain Fatty Acids

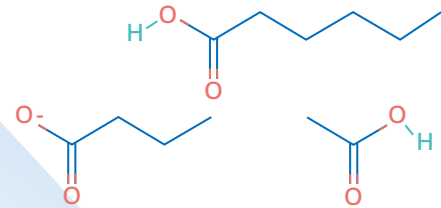
Short-chain fatty acids (SCFAs), also referred to as volatile fatty acids, are organic fatty acids characterized by carbon chains that vary in length from 1 to 6 carbon atoms. They primarily encompass acetic acid, propionic acid, isobutyric acid, butyric acid, isovaleric acid, valeric acid, and hexanoic acid, among others. MetwareBio offers absolute quantitation of **11 molecules** in a single run.



Absolute Quantitation
11 Short-chain Fatty Acids



High Sensitivity
Detection at **ng/mL** level



List of SCFAs

2-methylbutyrate

Acetate

Butyrate

Crotonate

Hexanoate

Isobutyrate

Isohexanoate

Isovalerate

Octanoate

Propionate

Valerate

Functions



Providing energy



Protecting the intestinal mucosal barrier



Regulating the immune system



Inhibiting tumor growth

Applications

Research on diseases

Inflammatory diseases of the gastrointestinal tract, colon cancer, cardiovascular and kidney diseases, etc.

Mechanisms to the gut microbiota

Mechanisms of SCFAs in metabolic regulation and the brain-gut axis.

Food and nutrition

Research on poultry feed breeding and the development of nutritional products.

Medicines and supplements

Targeting drugs related to gastrointestinal inflammation and the development of dietary supplements.



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