

AC-VBE

INCI Name: Vanillyl Butyl Ether



GENTLE and LONG-LASTING WARMING AGENT

AC-VBE is an active ingredient in personal care products to impart a warming sensation. When used at a certain rate with cooling agent, the warming effect or cooling effect can be increased. It is clear light yellow liquid at room temperature. It is less irritant comparing with other warming agents.

- ◆ High purity of ultra-rectification process, above 98%
- ◆ Very light yellow to almost colorless
- ◆ Pure characteristic vanillin odor
- ◆ Rapid warming effect
- ◆ Long lasting and Low irritation

EFFICACY

Microcirculation enhancement
Rejuvenate hair growth
Synergistic effect with cooling agent - AC-ML

SPECIFICATION

Band Name	Appearance	Solubility
AC-VBE	Liquid	Oil

AC-VBEco, a novel warming agent, is derived from two natural raw materials.

NEW

- ◆ Natural source, natural origin index = 1

AC-ML

INCI Name: Menthyl Lactate



GENTLE and LONG-LASTING COOLING AGENT

AC-ML is a new type of mint derivative with a weak chamomile or tobacco odor and a slightly sweet menthol taste. Its cooling effect is mild and long-lasting, suitable for sensitive skin and is widely used in various daily chemical formulations. It does not cover the fragrance odor, and it can be used with various fragrance types in cooling products.

- ◆ Light scent and not cover up the fragrance
- ◆ Long-lasting cooling effect
- ◆ Low irritation
- ◆ Easy to formulate with perfume oil or glycol solvents

EFFICACY

Sensation of fresh and coolness
Synergistic effect with warming agent - AC-VBE

SPECIFICATION

Band Name	Appearance	Solubility
AC-ML	Solid	Oil

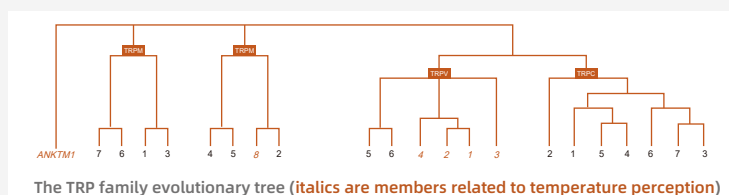
More cooling agents
(liquid size) are available

WARMING AGENT AND COOLING AGENT

THE FUSION of ICE and FIRE

There are Thermo Receptors on sensory nerve endings distributed in the skin. They can sense the internal and external temperature, reduce the damage of cold and heat stimulation, and protect the stability of body structure and function.

At present, researchers have successfully cloned the genes of several biomolecules related to temperature sensing, and it is clear that the proteins encoded by them belong to the transient receptor potential (TRP) family.



Those who sense the heat stimulation are TRP members—— TRPV

The mechanism of action of AC-VBE is closely related to TRPV1:

TRPV1 (the famous pain receptor of Nobel Prize in 2021), also known as capsaicin receptor or vanilloid receptor subtype 1 (VR1), is currently the most studied member of the TRP family.



Those who sense the cold stimulation are TRP members—— TRPM

The mechanism of action of AC-ML is closely related to TRPM8:

In 2002, TRPM8, also known as cold- and menthol-sensitive receptor 1 (CMR1), was successfully cloned in trigeminal neurons that sense cold stimuli and accept the action of menthol.

