

NATURAL SUPPORT TO ACHE MANAGEMENT



 **indena**[®]
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NATURALI

HEALTH - FOOD

ACMELAIN[™]

ACMELLA STANDARDIZED EXTRACT

These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.

Please note that the physiological activity of the ingredient described herein is supported by the referenced clinical trial reports. Marketers of finished products containing the ingredient described herein are responsible for determining whether the claims made for such products are lawful and in compliance with the laws of the country in which they will market the products.

 **acmela:n**[™]

WHAT IS ACMELAIN™?

Acmella (*Acmella oleracea* L.), also known as the “toothache plant” in some cultures, is a botanical species that has been **used for centuries to treat oral pain thanks to its analgesic properties**. From a phytochemical point of view, its leaves and flowers (aerial part) are rich in **bioactive compounds, especially alkylamides**.

Studies have shown that **the most important one among these is spilanthol**, because it promotes local anesthetic action as well as many other biological activities, leading to analgesic, antinociceptive, antioxidant and anti-inflammatory benefits.¹

ACMELAIN™ is a formulation of *Acmella oleracea* standardized extract with the use of a custom delivery system based on α -cyclodextrins, and it can be a reliable ally to maintain a reasonable wellbeing in conditions where chronic pain may occur.

SPECIFICATIONS

ACMELAIN™ contains:

1.9-2.4% *Acmella oleracea* st. extract corresponding to **0.30-0.60% spilanthol** by HPLC.

SCIENTIFIC EVIDENCE

MITIDOL® is supported by human efficacy and *in vitro* mechanistic studies.

REFERENCES

¹ Rondanelli M. et al., *Fitoterapia*, 140 104419 (2020).

² Petrangolini G. et al., *J Nutr Food Sci*, 10:766 (2023).

³ Boccella S. et al., *Phytotherapy research*, 14 (2023).

⁴ Rondanelli M. et al., *Journal of Pain Research*, 13:76 (2021).

⁵ Poli P. et al., *Evidence-based complementary and alternative medicine*, 2022.

WHAT MAKES ACMELAIN™ UNIQUE?

Acmella's mode of action is complex and based on the integration of different mechanisms.

In vitro studies by Indena have pointed out that this extraordinary plant has a **double effect on ache relief support: a direct one, due to the interaction with cannabinoid receptor CB2, and an indirect one, through the inhibition of the FAAH enzyme, involved in physiological ache relief processes.**²

One more point in favor of **ACMELAIN™** is that it can be a reliable team player: preclinical in vivo studies have proved that, **when used in combination with *Boswellia serrata* extract, it exerts a significant synergistic action counteracting neuropathic pain symptoms.**³

Moreover, clinical evidence has demonstrated that **when administered with *Zingiber officinalis* formulations (such as Indena's MITIDOL®), it can contrast discomfort in individuals with knee osteoarthritis.**⁴

Finally, recent results have shown that when patients under medical cannabis treatment are supplemented **with a combination of Coenzyme Q10 (such as UBIQSOME® - Coenzyme Q10 Indena Phytosome®), ginger extract and acmella extract, they report a significant beneficial effect.**⁵

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