

NATURAL SUPPORT TO ACHE MANAGEMENT



 **indena**[®]
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DERIVATI
NATURALI

HEALTH - FOOD

ACMELAIN[™]

ACMELLA STANDARDIZED EXTRACT

acmela.n[™]

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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).

⁴ Boccella S. et al., *Phytotherapy research*, 1:4 (2023).

³ 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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