

HEALTHY INFLAMMATORY RESPONSE



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**CASPEROME**<sup>®</sup>

BIOAVAILABLE BOSWELLIC ACIDS

**CASPEROME**<sup>®</sup>

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## WHAT IS CASPEROME®?

**CASPEROME®** is a **purified mixture of triterpenoid acids from the gum resin of *Boswellia serrata***. Given the poor bioavailability of these compounds,<sup>1</sup> Indena has formulated the extract with Phytosome® technology to **optimize their absorption**.

Boswellia extracts have been demonstrated to be effective in the management of various inflammatory response functions including those that occur in the **bowel, joints, bones, respiratory airways and in the brain**, with a mechanism of action that involves the **modulation of the natural inflammatory response** both acting on prostanoid synthesis (mPGE2S) and protein degradation (caspases), and transcription factors (Nf-κB).

## SCIENTIFIC EVIDENCE

**CASPEROME®** is supported by **over 10 human studies**, including pharmacokinetics.

## SPECIFICATIONS

**CASPEROME®** is standardized to contain: **≥25% of triterpenoid acids** by HPLC

## RECOMMENDED USE AND DOSE

**CASPEROME®** is a yellow powder and may be utilized in a variety of supplement formulations.

Recommended dose: 250-500 mg/day

## TRADEMARKS

**CASPEROME®** is a trademark of Indena S.p.A. and its logo and usage guidelines are available from Indena.

## References

- 1 Buechele B. *et al. J Chromatogr B* 2003; 795: 355-62
- 2 Riva, A., *et al. Eur Rev Med Pharmacol Sci* 21.22 (2017): 5258-5263.
- 3 Lazzaro F. *GIOT* 2014;40:141-150
- 4 Lazzaro F., Loiero M. *GIOT* 2014;40:249-257
- 5 Saiyahi H. *et al. J Pharmacol Exp Ther* 1992; 261: 1143-6
- 6 Tausch L. *et al. J Immunol* 2009; 183: 3423-42
- 7 Fahmi H. *Curr Opin Rheumatol* 2004; 16 (5): 623-7
- 8 Gupta I. *et al. Eur J Med Res* 1997; 2 (1): 37-43
- 9 Gupta I. *et al. Planta Med* 2001; 67 (6): 391-5
- 10 Khajuria A. *et al. Vaccine* 2007; 25 (23): 4586-94
- 11 Gerhardt H. *et al. Z Gastroenterol* 2001; 39: 11-7
- 12 Sengupta K. *et al. Arthritis Res Ther* 2008; 10 (4): R85
- 13 Hüscher J. *et al. Fitoterapia* 84 (2013) 89-98
- 14 Gerbeth K. *et al. Fitoterapia* 84 (2013) 99-106
- 15 Riva, A., *et al. Phytomedicine* 23.12 (2016): 1375-1382.
- 16 Pellegrini, L., *et al. Eur Rev Med Pharmacol Sci* 20.12 (2016): 2695-2700.
- 17 Belcaro G. *et al. Eur Rev Med Pharmacol Sci* 21(19), 2249-54, 5 2017
- 18 Riva, A., *et al. Minerva gastroenterologica e dietologica* 65.1 (2019): 30-35.

## WHAT MAKES CASPEROME® UNIQUE?

**CASPEROME®**, highly standardized in boswellic acids is formulated with Phytosome® technology to achieve optimized absorption.

- CASPEROME® has been shown to support musculoskeletal health.<sup>2</sup> Furthermore, in combination with sodium hyaluronate, collagene and glucosamine, has been shown to be **supportive against elbow and tendon challenges**.<sup>3,4</sup>
- CASPEROME® has been shown to support gut health, **significantly alleviating the most common gut discomforts**, compared to the best available managements.<sup>16-18</sup>

Furthermore in literature is reported that:

- KBA and AKBA are **selective 5-lipoxygenase inhibitor** and then capable to **manage the inflammatory response function through leukotriene inhibition**.<sup>5</sup> Recent findings have shifted the focus on **β-boswellic acid**, the major triterpenoid from the gum-resin, and its capability to **modulate the inflammatory response enzymes cathepsin (catG)<sup>6</sup> and microsomal prostglandin E synthase (mPGES)-1,<sup>7</sup> suggesting that β-boswellic acid** plays a major role while the whole bouquet of triterpenoid acids is important for the beneficial effects of boswellia;
- Boswellia extracts have been demonstrated to be useful for **bowel related inflammatory responses**,<sup>8-11</sup> and to **improve physical function in subjects with joint and tendon challenges**.<sup>12</sup>

The bioavailability of boswellic acids from **CASPEROME®** is greatly optimized both at the plasma and at the tissue level.<sup>13-15</sup>

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