

Product Data Sheet

Product Name: Antcin K
Cat. No.: GC80868

Chemical Properties

Cas. No. 741268-13-3

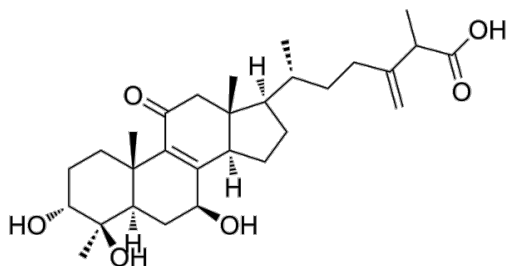
Formula $C_{29}H_{44}O_6$ M.Wt 488.66

Solubility Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Antcin K is a selective inhibitor targeting the PI3K/Akt, NF-κB, MEK1/2-ERK, p38 and AP-1 pathways. Antcin K upregulates IL-10 expression, thereby inhibiting the production of pro-inflammatory factors, blocking monocyte adhesion, reducing tissue damage, and promoting myogenesis. Antcin K has significant anti-inflammatory, anti-damage and tissue protective activities. Antcin K is mainly used in the research of inflammation-related diseases such as periodontitis, rheumatoid arthritis, and skeletal muscle injury [1] [2] [3].

Caution: Product has not been fully validated for medical applications. For research use only.

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References:

- [1]. Wu YH, et al. Antcin K suppresses proinflammatory cytokines expression via the PI3K, Akt and NF- κ B pathways in human gingival fibroblasts: implications for periodontitis treatment. *Cell Death Discov.* 2025 Nov 22.
- [2]. Achudhan D, et al. Antcin K inhibits VCAM-1-dependent monocyte adhesion in human rheumatoid arthritis synovial fibroblasts. *Food Nutr Res.* 2022 Jun 2;66.
- [3]. Chang TK, et al. Antcin K ameliorates cardiotoxin-induced skeletal muscle injury and inflammation via IL-10 regulation. *Int J Biol Sci.* 2025 Mar 19;21(6):2493-2507.

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