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**Product Data Sheet**

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Product Name:  $\alpha$ -Chaconine

Cat. No.: GC63267

**Chemical Properties**

Cas. No. 20562-03-2

Formula  $C_{45}H_{73}NO_{14}$  M.Wt 852.06

Solubility Storage

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**

$\alpha$ -Chaconine inhibits the expressions of COX-2, IL-1 $\beta$ , IL-6, and TNF- $\alpha$  at the transcriptional level.  $\alpha$ -Chaconine inhibits the LPS-induced expressions of iNOS and COX-2 at the protein and mRNA levels and their promoter activities in RAW 264.7 macrophages. Anti-inflammatory effects[1].

$\alpha$ -Chaconine attenuates the transcriptional activity of activator protein-1 (AP-1) by reducing the translocation and phosphorylation of c-Jun.  $\alpha$ -Chaconine suppresses lipopolysaccharide-induced pro-inflammatory mediators via AP-1 inactivation in RAW 264.7 macrophages and protects mice from endotoxin shock.  $\alpha$ -Chaconine also suppresses the phosphorylation of TGF- $\beta$ -activated kinase-1 (TAK1), which lies upstream of MKK7/JNK signaling[1].

[1]. Lee KG, et al.  $\alpha$ -Chaconine isolated from a Solanum tuberosum L. cv Jayoung suppresses lipopolysaccharide-induced pro-inflammatory mediators via AP-1 inactivation in RAW 264.7 macrophages and protects mice from endotoxin shock. Chem Biol Interact. 2015 Jun 25;235:85-94.

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

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