

# Betulinaldehyde

Catalog No: tcsc2794



## Available Sizes

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

13159-28-9

**Formula:**

$C_{30}H_{48}O_2$

**Pathway:**

Anti-infection

**Target:**

Bacterial

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Alternative Names:**

Betulinic aldehyde;Betunal

**Observed Molecular Weight:**

440.7

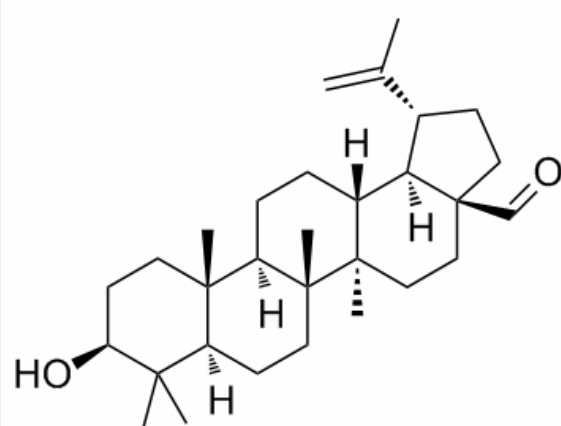
## Product Description

Betulinaldehyde(Betunal) belongs to pentacyclic triterpenoids and was reported to exhibit antimicrobial activities against bacteria and fungi, including *S. aureus*.

IC50 value:

Target:

Betulinaldehyde(Betunal) belongs to pentacyclic triterpenoids that are based on a 30-carbon skeleton comprising four six-membered rings and one five-membered ring. Betulinaldehyde regulates multiple desirable targets which could be further explored in the development of therapeutic agents for the treatment of *S. aureus* infections [1]. Study compounds  $\alpha$ -amyrin [ $3\beta$ -hydroxy-urs-12-en-3-ol (AM)], betulinic acid [ $3\beta$ -hydroxy-20(29)-lupaene-28-oic acid (BA)] and betulinaldehyde [ $3\beta$ -hydroxy-20(29)-lupen-28-al (BE)] belong to pentacyclic triterpenoids and were reported to exhibit antimicrobial activities against bacteria and fungi, including *S. aureus*. The MIC values of these compounds against a reference strain of methicillin-resistant *S. aureus* (MRSA) (ATCC 43300) ranged from 64  $\mu$ g/ml to 512  $\mu$ g/ml. However, the response mechanisms of *S. aureus* to these compounds are still poorly understood [2].



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