

Product Data Sheet

Product Name: Aureusimine B

Cat. No.: GC41490

Chemical Properties

Cas. No. 170713-71-0

SMILES CC(C)C1=NC=C(NC1=O)CC2=CC=CC=C2

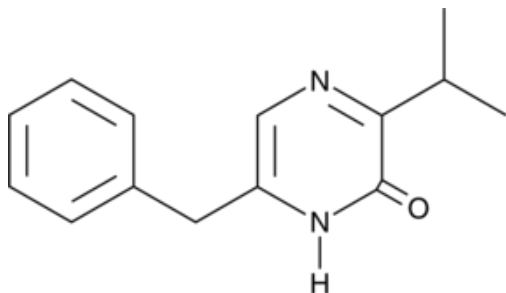
Formula C₁₄H₁₆N₂O M.Wt 228.3

Solubility Chloroform: Slightly Soluble, Methanol: Slightly Soluble
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

Aureusimine B, also known as phevalin, is a natural pyrazinone produced by certain fungi and by *Staphylococcus* spp., including *S. aureus*. Its synthesis appears to be initiated by a conserved nonribosomal peptide synthetase that creates a dipeptide (phenylalanine-valine) aldehyde, which then undergoes cyclization and oxidation. Aureusimine B inhibits calpain in a casein hydrolysis assay (IC₅₀ = 1.3 μM), contributes to *S. aureus* infection in mice, and alters human keratinocyte gene expression.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA