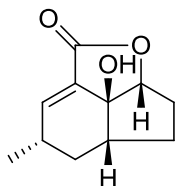


Galiellalactone

Code No.: **BIA-G1032**

Pack sizes: **1 mg, 5 mg**



Synonyms :

Specifications

| | |
|-------------------|---|
| CAS # | : 133613-71-5 |
| Molecular Formula | : C ₁₁ H ₁₄ O ₃ |
| Molecular Weight | : 194.2 |
| Source | : Unidentified fungus |
| Appearance | : White Lyophilisate |
| Purity | : >95% by HPLC |
| Long Term Storage | : -20°C |
| Solubility | : Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility. |

Application Notes

Galiellalactone was originally isolated from *Galiella rufa* as a plant growth regulator. Recently it was shown to inhibit IL-6 induced SEAP expression with IC₅₀ values of 250-500 nM, blocking the binding of the activated Stat3 dimers to their DNA binding sites without inhibiting the tyrosine and serine phosphorylation of the Stat3 transcription factor.

References

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2. Biologically active secondary metabolites from the ascomycete A111-95. 1. Production, isolation and biological activities. Kopcke B. et al., J. Antibiot. 2002, 55, 36.
3. Synthesis of (-)-galiellalactone. Johansson M. et al., J. Antibiot. 2002, 55, 663.
4. Inhibition of interleukin-6 signaling by galiellalactone. Weidler M. et al., FEBS Lett. 2000, 484, 1.
5. Screening of basidiomycetes and ascomycetes for plant growth regulating substances. R. Hautzel & H. Anke, Z. Naturforsch. 1990, 45c, 1094.