

Product Name:	Galiellalactone
Product Number:	G051
CAS Number:	133613-71-5
Molecular Formula:	C ₁₁ H ₁₄ O ₃
Molecular Weight:	194.2
Appearance:	White Lyophilisate
Storage Conditions:	-20°C
Description:	<p>Galiellalactone was originally isolated from <i>Galiella rufa</i> as a plant growth regulator.</p> <p>Galiellalactone is soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.</p>
Mechanism of Action:	Recently Galiellalactone was shown to inhibit IL-6 induced SEAP expression with IC ₅₀ 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:	<p>The high-intrinsic Diels-Alder reactivity of (-)-galiellalactone; generating four quaternary carbon centers under mild conditions, von Nussbaum F. et al. Eur. J. Org. Chem. 2004, 2783.</p> <p>Biologically active secondary metabolites from the ascomycete A111-95. 1. Production, isolation and biological activities. Kopcke B. et al. J. Antibiot. 2002, 55, 36.</p> <p>Synthesis of (-)-galiellalactone. Johansson M. et al. J. Antibiot. 2002, 55, 663.</p> <p>Inhibition of interleukin-6 signaling by galiellalactone. Weidler M. et al. FEBS Lett. 2000, 484, 1.</p> <p>Screening of basidiomycetes and ascomycetes for plant growth regulating substances. R. Hautzel & H. Anke, Z. Naturforsch. 1990, 45c, 1094.</p>