

Galiellalactone

Cat. No. CEI-1604

Lot. No. (See product label)

Introduction

Description

Galiellalactone is a fungal metabolite isolated from the ascomycetes *G. rufa* strain A75-86 and A111-95 that inhibits IL-6-mediated JAK/STAT signal transduction in HepG2 cells with an IC₅₀ value of 0.25-0.5 μ M. The selectivity of this compound is achieved by its ability to block the binding of activated STAT3 dimers to their DNA binding sites without affecting phosphorylation of the STAT3 transcription factor. At 10-50 μ M, galiellalactone exhibits dose-dependent growth inhibitory effects on prostate cancer stem cell-like cells expressing active STAT3, suggesting it may be a useful therapeutic approach to control JAK/STAT signaling.

Product Information

Form A white lyophilized powder

Formulation In Phosphate buffer saline (pH 7.4) containing 20% glycerol 1mM DTT.

CAS No. 133613-71-5

Molecular Formula C₁₁H₁₄O₃

Chemical Name (7bS)-5,5aR,6,7,7aR,7b-hexahydro-7b-hydroxy-4S-methyl-indeno[1,7-bc]furan-2(4H)-one

Molecular Weight 194.2

Purity $\geq 95\%$

Storage and Shipping Information

Storage Store at -20° C

Stability 2 years when stored properly