Creative Enzymes®

# Galiellalactone

*Cat. No. CEI-1604*

*Lot. No.* (See product label)

## Introduction

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| ***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 μM. 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 μM, 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

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| ***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*** | >=95% |

## Storage and Shipping Information

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| ***Storage*** | Store at -20° C |
| ***Stability*** | 2 years when stored properly |