BioVision

06/14

For research use only

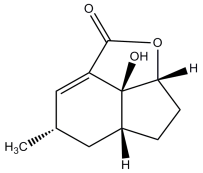
Product: Galieallactone

ALTERNATE NAME: (7bS)-5,5aR,6,7,7aR,7b-hexahydro-7b-hydroxy-4S-methyl-indeno[1,7-bc]furan-2(4H)-one; NSC645020, NSC-645020

CATALOG #: 2623-100, 500

AMOUNT: 100 µg, 500 µg

STRUCTURE:



MOLECULAR FORMULA: $C_{11}H_{14}O_3$

MOLECULAR WEIGHT: 194.23

CAS No. 133613-71-5

APPEARANCE: A white lyophilized solid

SOLUBILITY: DMSO

PURITY: >95%

STORAGE: Store at -20°C. Protect from air and light

DESCRIPTION: Galiellalactone is a fungal metabolite that inhibits IL-6-mediated JAK/STAT signal transduction in HepG2 cells (IC_{50} = 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.

REFERENCES:

Don-Doncow, N., *et al.* (2014). *J. Biol. Chem.* 10.1074/jbc.M114.564252

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

AG490 **(Cat. No. 1570-5)**
CP-690550 **(Cat. No. 1622-5, 25)**
LLL12 **(Cat. No. 1792-5, 25)**
Stat1 Antibody **(Cat. No. 3133R-100)**
Stat2 Antibody **(Cat. No. 3468R-100)**
Phospho-Stat2 Antibody **(Cat. No. 3469-1000**
Stat3 Antibody **(Cat. No. 3470R-100)**
Phospho-Stat3 Antibody **(Cat. No. 3474-100)**
Stat3 Inhibitor I, S3I-201 **(Cat. No. 1775-5, 25)**
EZSolution™ Stat3 Inhibitor I, S3I-201 **(Cat. No. 2541-5)**
Stat3 Peptide Inhibitor, Cell-Permeable **(Cat. No. 1778-1,5)**
Stat4 Antibody **(Cat. No. 3471R-100)**
Stat5 Antibody **(Cat. No. 3472-100)**
Phospho-Stat5 Antibody **(Cat. No. 3475-100)**
Stat6 Antibody **(Cat. No. 3473R-100)**
Phospho-Stat6 Antibody **(Cat. No. 3476-100)**
Tyrphostin AG 490 **(Cat. No. 1570-5)**
WHI-P131 **(Cat. No. 1853-5, 25)**
WP1066 **(Cat. No. 1809-5, 25)**
PathwayReady™ JAK/Stat Signaling Inhibitor Panel **(Cat. No. K864-8)**

FOR RESEARCH USE ONLY! Not to be used in humans.

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