

Product Name : Galiellalactone

Synonyms : Galiellalactone

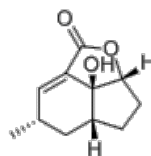
Cat No. : M11345

CAS Number : 133613-71-5

Molecular Formula : C₁₁H₁₄O₃

Formula Weight : 194.20

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



Description : A small molecule, direct STAT3 inhibitor that inhibits the IL-6-induced SEAP expression with IC₅₀ of 200-500 nM, blocks the binding of the activated STAT3 dimers to DNA; induces apoptosis of p-Stat3 positive PCa cells, and Stat3-mediated transcription with IC₅₀ of 5 uM, reduces the expression of Bcl-2, Bcl-x(L), c-myc, and cyclin D1; covalently binds to one or more cysteines in STAT3 and inhibits STAT3 binding to DNA and thus blocks STAT3 signaling without affecting phosphorylation; reduces tumor growth and decreases lymph node metastases in mice model of prostate cancer.

Pathway : JAK/STAT Signaling

Target : STAT

Receptor : STAT

Solubility : —

SMILES : O=C1C2=C(C@H)(C)C[C@@]3([H])CC[C@@]([C@@]23O)([H])O1

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Weidler M, et al. FEBS Lett. 2000 Oct 27;484(1):1-6. 2. Canesin G, et al. Eur Urol. 2016 Mar;69(3):400-4. 3. Don-Doncow N, et al. J Biol Chem. 2014 Jun 6;289(23):15969-78. 4. Hellsten R, et al. Prostate. 2008 Feb 15;68(3):269-80.