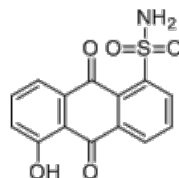


Product Name : LLL-12
Synonyms : LLL12;LLL 12
Cat No. : M11074
CAS Number : 1260247-42-4
Molecular Formula : C₁₄H₉NO₅S
Formula Weight : 303.29
Chemical Name : 5-hydroxy-9,10-dioxo-9,10-dihydroanthracene-1-sulfonamide



Description : A nonpeptide, cell-permeable STAT3 inhibitor that binds directly to the pTyr705 binding site of the STAT3 monomer; inhibit STAT3 phosphorylation (tyrosine 705) and induces apoptosis in various breast, pancreatic, and glioblastoma cancer cell lines with IC₅₀ of 0.16-3.09 μM; also inhibits STAT3 phosphorylation induced by IL-6 and IFN-α in MM cells, but not STAT1, STAT2, STAT4 and STAT6 phosphorylation; inhibits STAT3 DNA binding activity and STAT3-dependent transcriptional activity, but not STAT1; exhibits potent inhibitory activity on breast and glioblastoma tumor growth in a mouse xenograft model.

Pathway : JAK/STAT Signaling

Target : STAT

Receptor : STAT

Solubility : —

SMILES : O=S(C(C=CC=C1C(C2=C3C=CC=C2O)=O)=C1C3=O)(N)=O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Lin L, et al. Int J Cancer. 2012 Mar 15;130(6):1459-69. 2. Lin L, et al. Neoplasia. 2010 Jan;12(1):39-50. 3. Liu Y, et al. J Biol Chem. 2010 Aug 27;285(35):27429-39.