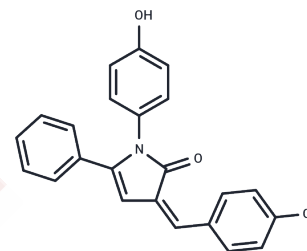


inS3-54A18

Chemical Properties

CAS No. : 328998-53-4
Formula: C₂₃H₁₆ClNO₂
Molecular Weight: 373.83
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	inS3-54A18 is an effective inhibitor of STAT3. inS3-54A18 has anticancer effects.
Targets(IC50)	STAT
In vitro	inS3-54A18 selectively impedes STAT3's interaction with its inherent target sequences and diminishes the expression of genes downstream of STAT3. It significantly reduces the wound healing capacity in A549 and MDA-MB-231 cells to 64% and 76% at a concentration of 5µM, and further decreases healing to 47% and 39%, respectively, at 10µM. Notably, inS3-54A18 does not interfere with either the basal or IL-6-stimulated activation of STAT3, but specifically inhibits the expression of a STAT3 target gene, survivin.
In vivo	inS3-54A18 (200 mg/kg, p.o.) inhibits tumor growth, metastasis, and STAT3 target gene expression in an A549 cell mouse xenograft model[1].

Solubility Information

Solubility	DMSO: 150 mg/mL (401.25 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.675 mL	13.3751 mL	26.7501 mL
5 mM	0.535 mL	2.675 mL	5.350 mL
10 mM	0.2675 mL	1.3375 mL	2.675 mL
50 mM	0.0535 mL	0.2675 mL	0.535 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Huang W, et al. Small-molecule inhibitors targeting the DNA-binding domain of STAT3 suppress tumor growth, metastasis and STAT3 target gene expression in vivo. *Oncogene*. 2016 Feb 11;35(6):783-92

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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