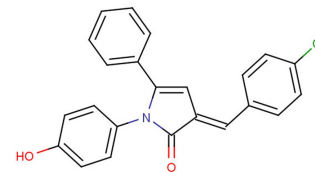


inS3-54A18

**Chemical Properties**

CAS No.:	328998-53-4
Formula:	C <sub>23</sub> H <sub>16</sub> ClNO <sub>2</sub>
Molecular Weight:	373.83
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	inS3-54A18 is a potent inhibitor of STAT3. It has anti-cancer properties.
Targets(IC <sub>50</sub> )	STAT3: None
In vivo	inS3-54A18 (200 mg/kg, p.o.) inhibits tumor growth, metastasis. In a mouse xenograft model of A549 cells, inS3-54A18 (200 mg/kg, p.o.) also inhibits expression of STAT3 target genes.

**Solubility Information**

Solubility	DMSO: 150 mg/mL (401.25 mM) (< 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	13.375 mL	26.75 mL
5 mM	0.535 mL	2.675 mL	5.35 mL
10 mM	0.268 mL	1.338 mL	2.675 mL
50 mM	0.054 mL	0.268 mL	0.535 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. 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

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:[info@targetmol.com](mailto:info@targetmol.com)

Address:36 Washington Street,Wellesley Hills,MA 02481