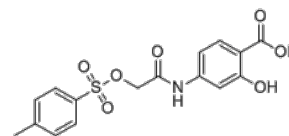


Product Name : S3I-201
Cat. No. : PC-20465
CAS No. : 501919-59-1
Molecular Formula : C₁₆H₁₅NO₇S
Molecular Weight : 365.36
Target : STAT
Solubility : 10 mM in DMSO



Biological Activity

S3I-201 (NSC 74859) is a selective chemical probe inhibitor of Stat3 activity, inhibits Stat3 DNA-binding activity in vitro with IC₅₀ of 86 uM.

S3I-201 preferentially inhibits Stat3 DNA-binding activity over that of Stat1 and Stat5 (IC₅₀, >300 and 166 uM respectively).

S3I-201 disrupts Stat3-Stat3 complex formation in vitro and in intact cells.

S3I-201 suppresses Stat3-dependent but not Stat3-independent transcriptional activity.

S3I-201 inhibits anchorage-dependent and -independent growth only of cells that contain persistently active Stat3.

S3I-201 (30 uM) inhibits cyclin D1, Bcl-xL, and survivin expression and induces apoptosis in a Stat3-dependent manner in breast carcinoma MDA-MB-435 cell line.

S3I-201 (5 mg/kg, i.v.) induces tumor regression in human breast (MDA-MB-231) tumor-bearing mice.

References

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Siddiquee K, et al. Proc Natl Acad Sci U S A. 2007 May 1;104(18):7391-6.

Pang M, et al. Kidney Int. 2010 Aug;78(3):257-68.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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