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## DATASHEET

NSC 74859

### Product overview

<b>Name</b>	NSC 74859
<b>Cat No</b>	HB1436
<b>Alternative names</b>	S3I-201
<b>Biological action</b>	Inhibitor
<b>Purity</b>	>98%
<b>Description</b>	Selective STAT3 inhibitor

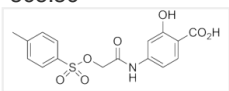
### Biological Data

<b>Biological description</b>	Selective STAT3 DNA-binding inhibitor. Selectively inhibits STAT3-STAT3 over STAT1-STAT3 and STAT1-STAT1 DNA-binding (IC <sub>50</sub> values are 86, 160 and >300 μM respectively). Enhances the activity of cytotoxic drugs. Shows antiproliferative, apoptotic and anti-tumor actions.
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### Solubility & Handling

<b>Storage instructions</b>	-20 °C
<b>Solubility overview</b>	Soluble in DMSO (10mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	2-Hydroxy-4-[[2-[[[(4-methylphenyl)sulfonyl]oxy]acetyl]amino]benzoic acid
<b>Molecular Weight</b>	365.36
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>16</sub> H <sub>15</sub> NO <sub>7</sub> S
<b>CAS Number</b>	501919-59-1
<b>PubChem identifier</b>	252682
<b>SMILES</b>	CC1=CC=C(S(OCC(NC2=CC=C(C(O)=O)C(O)=C2)=O)(=O)=O)C=C1
<b>InChiKey</b>	HWNUSGNZBAISFM-UHFFFAOYSA-N

### References

#### Selective chemical probe inhibitor of Stat3, identified through structure-based virtual screening, induces antitumor activity.

Siddiquee K *et al* (2007) Proc Natl Acad Sci U S A 104(18)

**PubMedID** [17463090](#)

#### NSC 74859-mediated inhibition of STAT3 enhances the anti-proliferative activity of cetuximab in hepatocellular carcinoma.

Chen W *et al* (2012) Liver Int 32(1)

**PubMedID** [22098470](#)

**NSC 74859 enhances doxorubicin cytotoxicity via inhibition of epithelial-mesenchymal transition in hepatocellular carcinoma cells.**

Hu QD *et al* (2012) Cancer Lett 325(2)

**PubMedID**

[22781398](#)

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