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DATASHEET

NSC 74859

Product overview

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

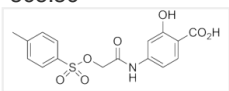
Biological Data

Biological description	Selective STAT3 DNA-binding inhibitor. Selectively inhibits STAT3-STAT3 over STAT1-STAT3 and STAT1-STAT1 DNA-binding (IC ₅₀ 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

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

Chemical Data

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