

Certificate of Analysis

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Product Name: NSC 74859

Catalog No.: 4655

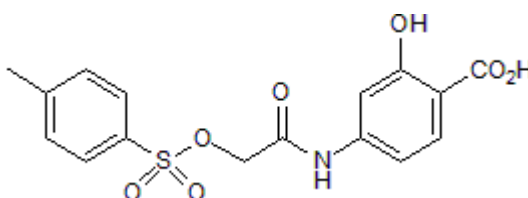
Batch No.: 1

CAS Number: 501919-59-1

IUPAC Name: 2-Hydroxy-4-[[2-[[[(4-methylphenyl)sulfonyl]oxy]acetyl]amino]benzoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₅NO₇S
Batch Molecular Weight: 365.36
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.6	4.14	3.83
Found	52.35	4.19	3.84

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Selectively inhibits STAT3 DNA-binding activity in vitro (IC₅₀ values are 86, 160, and >300 μM for STAT3-STAT3, STAT1-STAT3 and STAT1-STAT1 DNA-binding activity respectively). Blocks growth and induces apoptosis preferentially in tumor cells that contain persistently active STAT3 in vitro and arrests tumor growth in a murine xenograft model in vivo.

Physical and Chemical Properties:

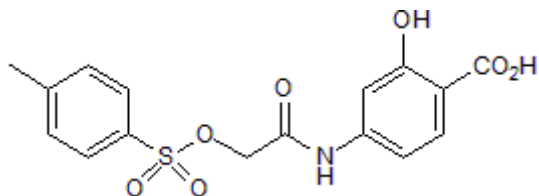
Batch Molecular Formula: C₁₆H₁₅NO₇S

Batch Molecular Weight: 365.36

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Siddiquee et al (2007) Selective chemical probe inhibitor of Stat3, identified through structure-based virtual screening, induces antitumor activity. *Proc.Natl.Acad.Sci.U.S.A.* **104** 7391. PMID: 17463090.

Lin et al (2009) The STAT3 inhibitor NSC 74859 is effective in hepatocellular cancers with disrupted TGF-beta signaling. *Oncogene* **28** 961. PMID: 19137011.

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