Cat No. 18-N27

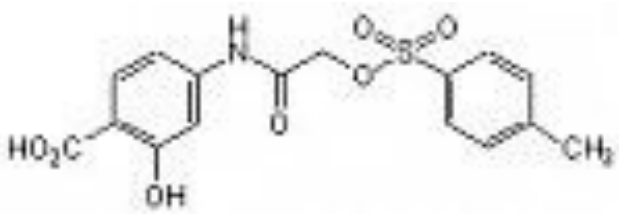
NSC74589

5mg

For research purposes only

NSC74859, also known as S3I-201, binds the Stat3-SH2 domain and prevents Stat3 phosphorylation/ activation, dimerization, DNA-binding, and Stat3-dependent transcription, therefore, inhibiting growth and inducing apoptosis preferentially in tumor cells that contain persistently activated Stat3. Moreover, NSC74859 also inhibits the expression of the Stat3-regulated genes encoding cyclin D1, Bcl-xL, and survivin.

TECHNICAL INFORMATION



Other Names: 2-hydroxy-4(2-(tosyloxy)acetamido) benzoic acid

Chemical Formula: $C_{16}H_{15}NO_7S$

CAS Number: 501919-59-1

PubChem Substance ID: 24188297

Molecular Weight: 365.36

Purity: >98%

Appearance: Light Beige Solid

Solubility: DMSO

IC_{50} : STAT3 86µM

STORAGE AND HANDLING

Storage: Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

Stability: Stock solutions stable at -20°C for up to 2 years.

Shipping Conditions: Shipped at room temperature.

PRODUCT USE

Soluble in ≥73mg/mL of DMSO.

REFERENCES

1. Hu, Q.D., et al (2012). NSC74859 enhances doxorubicin cytotoxicity via inhibition of epithelial-mesenchymal transition in hepatocellular carcinoma cells. Cancer Lett. 28:207-13.
2. Chen, W., et al (2012). NSC74589-mediated inhibition of STAT3 enhances the anti-proliferative activity of cetuximab in hepatocellular carcinoma. Liver int. 32:70 -7.