

Certificate of Analysis

Product Name: NSC 23005 sodium

Catalog No.: 5779

Batch No.: 1

CAS Number: 1796596-46-7

IUPAC Name: 4-[(Cyclohexylamino)sulfonyl]benzoic acid sodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₆NNaO₄S.H₂O

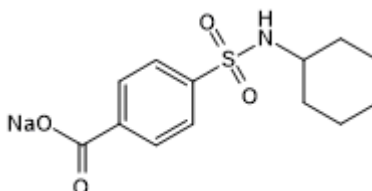
Batch Molecular Weight: 323.35

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM
ethanol to 20 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	48.29	5.61	4.33
Found	48.39	5.48	4.07

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

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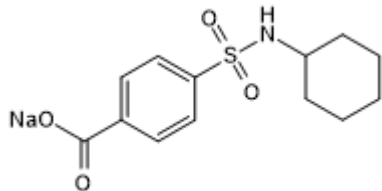
Description:

p18^{INK} inhibitor. Potently promotes hematopoietic stem cell (HSC) expansion (ED₅₀ = 5.21 nM). Exhibits no effect on leukemia cell proliferation.

Physical and Chemical Properties:Batch Molecular Formula: C₁₃H₁₆NNaO₄S.H₂O

Batch Molecular Weight: 323.35

Physical Appearance: White solid

Minimum Purity: >99%**Batch Molecular Structure:****Storage:** Desiccate at RT**Solubility & Usage Info:**water to 100 mM
DMSO to 100 mM
ethanol to 20 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:

Xie et al (2015) Discovery of novel INK4C small-molecule inhibitors to promote human and murine hematopoietic stem cell *ex vivo* expansion. *Sci.Rep.* **5** 18115. PMID: 26681454.

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