

Certificate of Analysis

Product Name: PSB 06126

Catalog No.: 2574

Batch No.: 2

CAS Number: 1052089-16-3

IUPAC Name: 1-Amino-4-(1-naphthyl)aminoanthraquinone-2-sulfonic acid sodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{24}H_{15}N_2NaO_5S \cdot 1\frac{1}{2}H_2O$

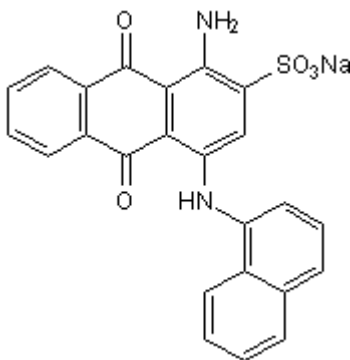
Batch Molecular Weight: 488.96

Physical Appearance: Blue solid

Solubility: DMSO to 100 mM
ethanol to 50 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: $R_f = 0.75$ (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

HPLC: Shows >99.1% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	Sodium
Theoretical	58.95	3.61	5.73	4.7
Found	58.65	3.28	5.61	4.98

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

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Description:

Nucleoside triphosphate diphosphohydrolase 3 (NTPDase 3) inhibitor. Reported to inhibit rat NTPDase 3 at low micromolar concentrations and display selectivity over NTPDase 1 and NTPDase 2.

Physical and Chemical Properties:

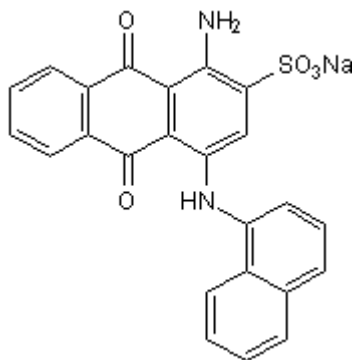
Batch Molecular Formula: C₂₄H₁₅N₂NaO₅S.1 ¼H₂O

Batch Molecular Weight: 488.96

Physical Appearance: Blue solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 50 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:

Baqi et al (2009) Structure activity relationships of anthraquinone derivatives derived from bromaminic acid as inhibitors of ectonucleoside triphosphate diphosphohydrolases(E-NTPDases). *Purinerg.Sig.* **5** 91.

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