

Certificate of Analysis

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Product Name: PSB 0739

Catalog No.: 3983

Batch No.: 3

CAS Number: 1052087-90-7

IUPAC Name: 1-Amino-9,10-dihydro-9,10-dioxo-4-[[4-(phenylamino)-3-sulphophenyl]amino]-2-anthracenesulfonic acid sodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{26}H_{17}N_3Na_2O_8S_2 \cdot 3H_2O$

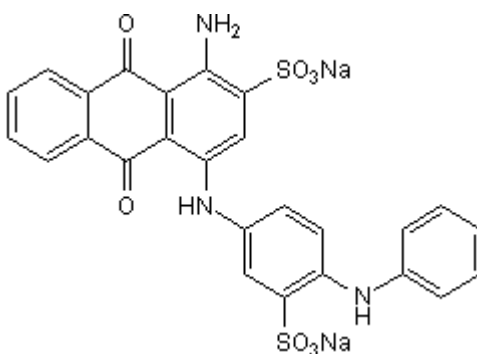
Batch Molecular Weight: 663.59

Physical Appearance: Dark blue solid

Solubility: water to 25 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: $R_f = 0.61$ (Pyridine:Acetic acid:Water:Butanol [3:8:11:44])

HPLC: Shows 96.9% purity

1H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	47.06	3.49	6.33
Found	46.72	3.43	6.43

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

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Description:

Highly potent P2Y₁₂ receptor antagonist (K_i = 24.9 nM). Unlike clopidogrel (Cat. No. 2490), does not require bioactivation.

Physical and Chemical Properties:

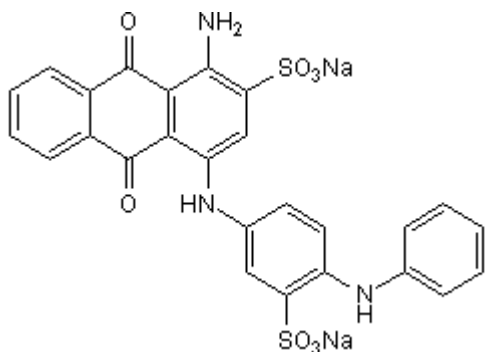
Batch Molecular Formula: C₂₆H₁₇N₃Na₂O₈S₂·3H₂O

Batch Molecular Weight: 663.59

Physical Appearance: Dark blue solid

Minimum Purity: >95%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 25 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:

Hoffmann et al (2009) Interaction of new, very potent non-nucleotide antagonists with Arg256 of the human platelet P2Y₁₂ receptor. *J.Pharmacol.Exp.Ther.* **331** 648. PMID: 19690189.

Baqi et al (2009) High-affinity, non-nucleotide-derived competitive antagonists of platelet P2Y₁₂ receptors. *J.Med.Chem.* **52** 3784. PMID: 19463000.

Felix et al (2011) Development of a comprehensive set of P2 receptor pharmacological research compounds. *Purinerg.Sig.* **8** 101. PMID: 22052555.

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