

**Product Name:** PSB 0739

**Catalog No.:** 3983

**Batch No.:** 5

CAS Number: 1052087-90-7

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

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>26</sub>H<sub>17</sub>N<sub>3</sub>Na<sub>2</sub>O<sub>8</sub>S<sub>2</sub>·3.75H<sub>2</sub>O

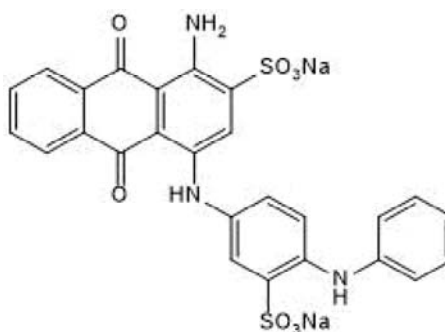
**Batch Molecular Weight:** 677.1

**Physical Appearance:** Blue/black solid

**Solubility:** water to 25 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 95.1% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	46.12	3.65	6.21
Found	45.49	3.2	6.37

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

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CAS Number: 1052087-90-7

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**Description:**

PSB 0739 is a highly potent P2Y<sub>12</sub> receptor antagonist (K<sub>i</sub> = 24.9 nM). Unlike clopidogrel (Cat. No. 2490), does not require bioactivation.

**Physical and Chemical Properties:**

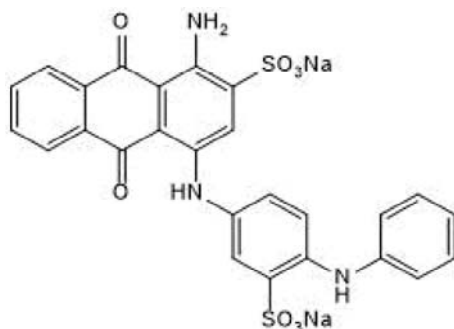
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Batch Molecular Weight: 677.1

Physical Appearance: Blue/black 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.

**Licensing Information:**

Sold with the permission of the University of Bonn.

**References:**

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

**Baqi et al** (2009) High-affinity, non-nucleotide-derived competitive antagonists of platelet P2Y<sub>12</sub> receptors. *J.Med.Chem.* **52** 3784. PMID: 19463000.

**Hoffmann et al** (2009) Interaction of new, very potent non-nucleotide antagonists with Arg256 of the human platelet P2Y<sub>12</sub> receptor. *J.Pharmacol.Exp.Ther.* **331** 648. PMID: 19690189.

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