

**Product Name:** BPIPP

**Catalog No.:** 3635

**Batch No.:** 1

CAS Number: 325746-94-9

IUPAC Name: 5-(3-Bromophenyl)-5,11-dihydro-1,3-dimethyl-1*H*-indeno[2',1':5,6]pyrido[2,3-*d*]pyrimidine-2,4,6(3*H*)-trione

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>22</sub>H<sub>16</sub>BrN<sub>3</sub>O<sub>3</sub> · ½H<sub>2</sub>O

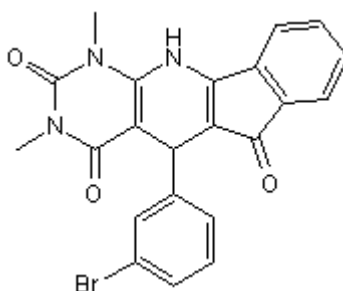
**Batch Molecular Weight:** 459.29

**Physical Appearance:** Red solid

**Solubility:** DMSO to 2 mM

**Storage:** Store at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.25 (Chloroform:Methanol:Ammonia soln. [19:1:0.1])

**HPLC:** Shows >99.3% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	57.53	3.73	9.15
Found	57.59	3.62	9.08

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**Description:**

Non-competitive guanylyl cyclase (GC) and adenylyl cyclase (AC) inhibitor. Downregulates cAMP and cGMP synthesis, and suppresses cGMP accumulation in a variety of cell lines ( $IC_{50}$  = 3.4 - 11.2  $\mu$ M). Inhibits GC-stimulated Cl<sup>-</sup> transport in vitro and suppresses toxin-induced intestinal fluid accumulation in vivo.

**Physical and Chemical Properties:**

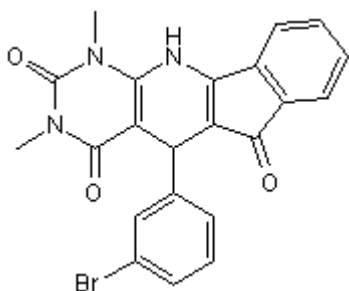
Batch Molecular Formula: C<sub>22</sub>H<sub>16</sub>BrN<sub>3</sub>O<sub>3</sub> · ½H<sub>2</sub>O

Batch Molecular Weight: 459.29

Physical Appearance: Red solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**References:**

Kots *et al* (2008) Pyridopyrimidine derivatives as inhibitors of cyclic nucleotide synthesis: application for treatment of diarrhea. Proc.Natl.Acad.Sci.USA **105** 8440.

**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 2 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.

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