

**Product Name:** ABT 702 hydrochloride

**Catalog No.:** 2372

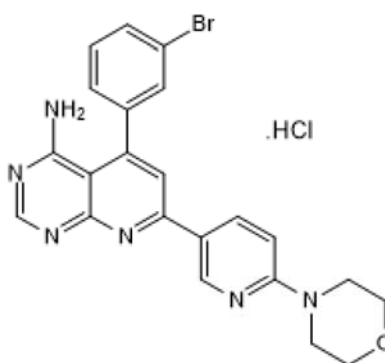
**Batch No.:** 3

CAS Number: 2624336-92-9

IUPAC Name: 5-(3-Bromophenyl)-7-[6-(4-morpholinyl)-3-pyrido[2,3-*d*]byrimidin-4-amine hydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>22</sub>H<sub>19</sub>N<sub>6</sub>OBr.HCl  
**Batch Molecular Weight:** 499.79  
**Physical Appearance:** Yellow/orange solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 99.4% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	52.87	4.03	16.81	7.09
Found	52.06	4	17.21	7.02

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**Description:**

ABT 702 hydrochloride is a potent non-nucleoside adenosine kinase inhibitor ( $IC_{50} = 1.7$  nM), selective over other sites of adenosine interaction ( $A_1$ ,  $A_{2A}$  and  $A_3$  receptors, adenosine transporter and adenosine deaminase). Displays oral activity in animal models of pain and inflammation.

**Physical and Chemical Properties:**

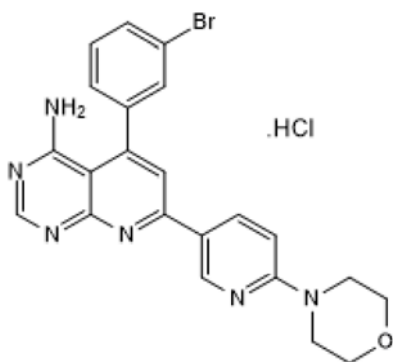
Batch Molecular Formula:  $C_{22}H_{19}N_6OBr.HCl$

Batch Molecular Weight: 499.79

Physical Appearance: Yellow/orange solid

**Minimum Purity:**  $\geq 98\%$

**Batch Molecular Structure:**



**Storage:** Store at  $-20^{\circ}C$

**Solubility & Usage Info:**

DMSO to 100 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  $45-60^{\circ}C$  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  $-20^{\circ}C$  or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Lee et al (2001)** Discovery of 4-amino-5-(3-bromophenyl)-7-(6-morpholino-pyridin-3-yl)pyrido[2,3-*d*]pyrimidine, an orally active, non-nucleoside adenosine kinase inhibitor. *J.Med.Chem.* **44** 2133. PMID: 11405650.

**Jarvis et al (2000)** ABT-702 (4-amino-5-(3-bromophenyl)-7-(6-morpholino-pyridin-3-yl)pyrido[2, 3-*d*]pyrimidine), a novel orally effective adenosine kinase inhibitor with analgesic and anti-inflammatory properties: I In vitro characterization and acute antinociceptive *J.Pharmacol.Exp.Ther.* **295** 1156. PMID: 11082453.

**Kowaluk et al (2000)** ABT-702 (4-amino-5-(3-bromophenyl)-7-(6-morpholino-pyridin- 3-yl)pyrido[2,3-*d*]pyrimidine), a novel orally effective adenosine kinase inhibitor with analgesic and anti-inflammatory properties II. In vivo characterization in the rat. *J.Pharmacol.Exp.Ther.* **295** 1165. PMID: 11082454.

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