

Product Name: ABT 702 hydrochloride

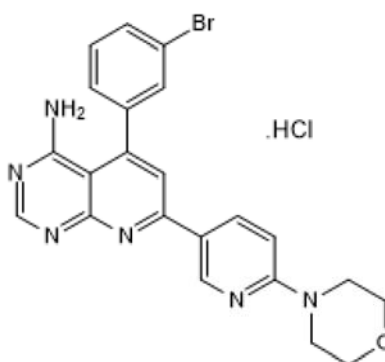
Catalog No.: 2372

Batch No.: 3

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: C₂₂H₁₉N₆OBr.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
¹H 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

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

Product Name: ABT 702 hydrochloride

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

Description:

Potent non-nucleoside adenosine kinase inhibitor (IC₅₀ = 1.7 nM), selective over other sites of adenosine interaction (A₁, A_{2A} and A₃ receptors, adenosine transporter and adenosine deaminase). Displays oral activity in animal models of pain and inflammation.

Physical and Chemical Properties:

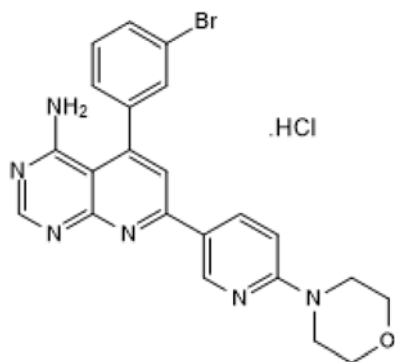
Batch Molecular Formula: C₂₂H₁₉N₆OBr.HCl

Batch Molecular Weight: 499.79

Physical Appearance: Yellow/orange solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°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°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:

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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