

**Product Name:** Arbidol

**Catalog No.:** 7235

**Batch No.:** 1

CAS Number: 131707-23-8

IUPAC Name: Ethyl 6-Bromo-4-((dimethylamino)methyl)-5-hydroxy-1-methyl-2-((phenylthio)methyl)-1*H*-indole-3-carboxylate hydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>22</sub>H<sub>25</sub>BrN<sub>2</sub>O<sub>3</sub>S.HCl.¾H<sub>2</sub>O

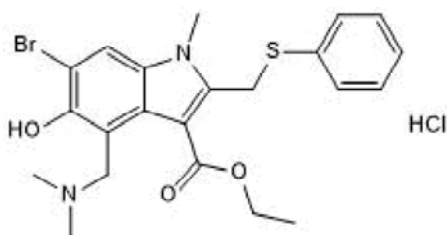
**Batch Molecular Weight:** 527.39

**Physical Appearance:** Off-white solid

**Solubility:** ethanol to 100 mM  
DMSO to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 100% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon Hydrogen Nitrogen		
Theoretical	50.1	5.26	5.31
Found	49.81	5.31	5.52

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956

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**Description:**

Broad spectrum antiviral. Displays activity against a range of respiratory and hepatitis viruses including influenza A, B and C, adenovirus, and hepatitis B and C. Increases stability of influenza viral hemagglutinins (HA) and prevents low-pH HA transition so inhibiting viral fusion. Also inhibits SARS-CoV-2 infection in vitro (IC<sub>50</sub> = 4.11 μM).

**Physical and Chemical Properties:**

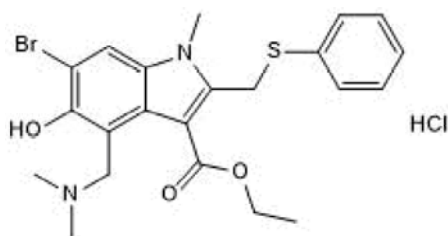
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Batch Molecular Weight: 527.39

Physical Appearance: Off-white solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

ethanol to 100 mM

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:**

**Wang et al** (2020) The anti-influenza virus drug, arbidol is an efficient inhibitor of SARS-CoV-2 *in vitro*. Cell Discov. **6** 28. PMID: 32373347.

**Boriskin et al** (2008) Arbidol: a broad-spectrum antiviral compound that blocks viral fusion. Curr.Med.Chem. **15** 997. PMID: 18393857.

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