

## Certificate of Analysis

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**Product Name:** DV 7028 hydrochloride

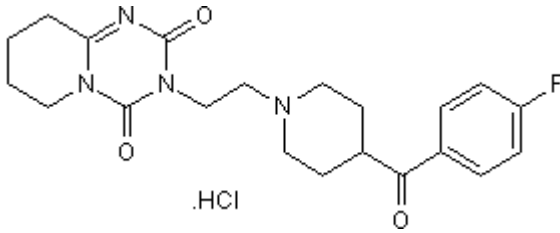
**Catalog No.:** 4480

**Batch No.:** 1

CAS Number: 133364-62-2

IUPAC Name: 3-[2-[4-(4-Fluorobenzoyl)-1-piperidinyl]ethyl]-6,7,8,9-tetrahydro-2H-pyrido[1,2-a]-1,3,5-triazine-2,4(3H)-dione hydrochloride

### 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>21</sub> H <sub>25</sub> FN <sub>4</sub> O <sub>3</sub> ·HCl·H <sub>2</sub> O
<b>Batch Molecular Weight:</b>	454.93
<b>Physical Appearance:</b>	Off-white solid
<b>Solubility:</b>	water to 10 mM with gentle warming DMSO to 10 mM with gentle warming
<b>Storage:</b>	Desiccate at RT
<b>Batch Molecular Structure:</b>	

### 2. ANALYTICAL DATA

<b>TLC:</b>	R <sub>f</sub> = 0.59 (Dichloromethane:Methanol:Ammonia soln. [90:9:1])
<b>HPLC:</b>	Shows 99.4% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure
<b>Microanalysis:</b>	

	Carbon	Hydrogen	Nitrogen
Theoretical	55.44	6.2	12.32
Found	55.45	6.21	12.12

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

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**Description:**

Selective 5-HT<sub>2A</sub> receptor antagonist (K<sub>i</sub> = 22 nM for at 5-HT<sub>2</sub> receptors). Exhibits no affinity for 5-HT<sub>1A</sub>, 5-HT<sub>1B</sub> or 5-HT<sub>1D</sub> receptors. Inhibits collagen-induced serotonin secretion and platelet aggregation; displays no effect on serotonin uptake by platelets. Shown to inhibit arterial thrombus formation, but not venous thrombosis, in rat models.

**Physical and Chemical Properties:**

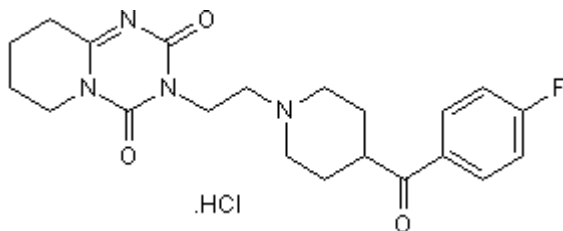
Batch Molecular Formula: C<sub>21</sub>H<sub>25</sub>N<sub>4</sub>O<sub>3</sub>.HCl.H<sub>2</sub>O

Batch Molecular Weight: 454.93

Physical Appearance: Off-white solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

water to 10 mM with gentle warming  
DMSO to 10 mM with gentle warming

**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:**

**Shibano et al** (1992) Pharmacological profile of a new 5-hydroxytryptamine 2 receptor antagonist, DV-7028. Arch.Int.Pharmacodyn.Ther. **319** 114. PMID: 1285670.

**Pawlak et al** (1998) A potent 5-hydroxytryptamine receptor (5-HT<sub>2A</sub>) antagonist, DV-7028, delays arterial thrombosis development in rats. Thromb.Res. **90** 259. PMID: 9700856.

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