

**Product Name:** ASP 7967

**Catalog No.:** 8803

**Batch No.:** 1

CAS Number: 1246958-42-8

IUPAC Name: *N*<sup>2</sup>,*N*<sup>4</sup>-Bis(4-fluorophenyl)-*N*<sup>6</sup>-(2-pyrimidinylmethyl)-1,3,5-triazine-2,4,6-triamine hemifumarate

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>20</sub>H<sub>16</sub>F<sub>2</sub>N<sub>8</sub>·½C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>·¼H<sub>2</sub>O

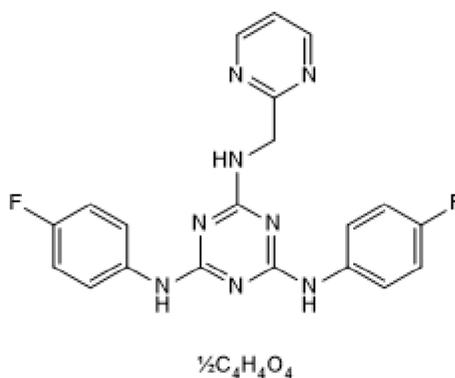
**Batch Molecular Weight:** 468.94

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 99.7% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	56.35	3.98	23.9
Found	55.71	4.08	23.77

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

**Product Name:** ASP 7967

**Catalog No.:** 8803

**Batch No.:** 1

CAS Number: 1246958-42-8

IUPAC Name: *N*<sup>2</sup>,*N*<sup>4</sup>-Bis(4-fluorophenyl)-*N*<sup>6</sup>-(2-pyrimidinylmethyl)-1,3,5-triazine-2,4,6-triamine hemifumarate

**Description:**

ASP 7967 is a ligand for RNA aptamer AC17-4 that activates gene expression in synthetic aptazime-based riboswitches at as low as 5 μM concentration, without relying on exogenous protein factors. ASP 7967 binds aptamer AC17-4 with high affinity in HEK293 cells (K<sub>d</sub> = 12 nM; EC<sub>50</sub> = 2.3 μM), activating gene expression (>10-fold) in HEK293 cells. ON/OFF ratio of riboswitches activated by ASP 7967 approaches 300, with a low basal expression level in cultured cells. In vivo, ASP 7967 upregulates the serum hEPO concentration by 7.2-fold over the vehicle control (mice). Cell permeable and low-toxic, ASP 7967 is orally bioavailable. Please see product specific page on www.tocris.com for full description.

**Physical and Chemical Properties:**

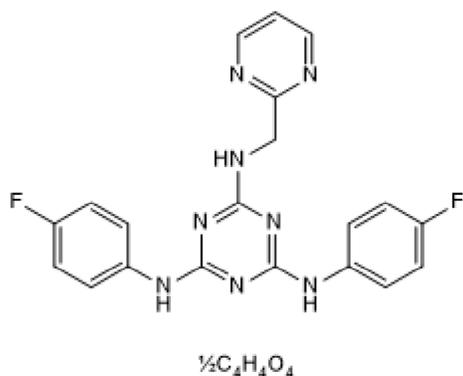
Batch Molecular Formula: C<sub>20</sub>H<sub>16</sub>F<sub>2</sub>N<sub>8</sub>·½C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>·¼H<sub>2</sub>O

Batch Molecular Weight: 468.94

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**References:**

**Klage et al** (2024) A comparative survey of the influence of small self-cleaving ribozymes on gene expression in human cell culture. *RNA Biology* **21** 1. PMID: 38146121.

**Olenginski et al** (2024) Flipping the script: Understanding riboswitches from an alternative perspective. *J.Biol.Chem.* **300**. PMID: 38336293.

**Takahashi et al** (2024) RNA-based controllers for engineering gene and cell therapies. *Curr.Opin.Biotech.* **85**. PMID: 38052131.

**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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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.

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