

## Certificate of Analysis

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**Product Name:** Favipiravir

**Catalog No.:** 7225

**Batch No.:** 1

CAS Number: 259793-96-9

IUPAC Name: 6-Fluoro-3,4-dihydro-3-oxo-2-pyrazinecarboxamide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>5</sub>H<sub>4</sub>FN<sub>3</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 157.1  
**Physical Appearance:** Cream solid  
**Solubility:** DMSO to 100 mM  
ethanol to 20 mM  
**Storage:** Store at -20°C

### 2. ANALYTICAL DATA

**HPLC:** Shows 99.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	38.23	2.57	26.75
Found	38.31	2.79	26.83

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

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IUPAC Name: 6-Fluoro-3,4-dihydro-3-oxo-2-pyrazinecarboxamide

**Description:**

Viral RNA polymerase inhibitor; exhibits no effects on mammalian RNA polymerase. Prodrug that is phosphoribosylated by cellular enzymes to its active form, Favipiravir-ribofuranosyl-5'-triphosphate (RTP). Reduces infection rate of SARS-CoV-2 in Vero E6 cells in vitro (IC<sub>50</sub> = 61.88 μM). Inhibits influenza virus RNA-dependent RNA polymerase (RdRP) activity (IC<sub>50</sub> = 341 nM). Induces lethal mutagenesis in MDCK cells inoculated with seasonal influenza A (H1N1) viruses. Protects mice against Ebola virus.

**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>5</sub>H<sub>4</sub>FN<sub>3</sub>O<sub>2</sub>

Batch Molecular Weight: 157.1

Physical Appearance: Cream solid

**Minimum Purity:** ≥98%

**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 20 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) Remdesivir and Chloroquine effectively inhibit the recently emerged novel coronavirus (2019-nCoV) *in vitro*. Cell Res. **30** 269. PMID: 32020029.

**Furuta et al** (2002) *In vitro* and *in vivo* activities of anti-influenza virus compound T-705. Antimicrob.Agents Chemother. **46** 977. PMID: 11897578.

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