

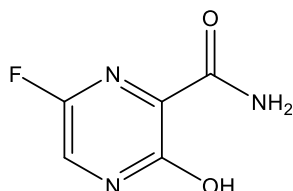
Catalog # 10-4471

Favipiravir

CAS# 259793-96-9

6-Fluoro-3-hydroxypyrazine-2-carboxamide; T-705

Lot # FBS2079



Favipiravir is an inhibitor of Influenza viruses A, B, and C (IC₅₀'s: A = 0.03-0.20 µg/mL H1N1, 0.01-0.30 H2N2, 0.08-0.48 H3N2, 0.14-0.15 H4N2, 0.24-1.60 H7N2, 0.20-0.82 H5N1, 0.35 H1N2; B = 0.04-0.09 µg/mL; C = 0.03-0.06 µg/mL) as well as strains resistant to adamantane-type antivirals, oseltamivir, and zanamivir.^{1,2,3} It displayed no cytotoxicity in a variety of cells. Favipiravir selectively inhibits viral RNA-dependent RNA polymerase.⁴ Favipiravir has also shown activity against other viruses including arena, phlebo, hanta, flavi, entero, alpha, respiratory syncytial, and noroviruses.⁵ In clinical trials for treatment of SARS-CoV-2.^{6,7}

- 1) Furuta *et al.* (2002), *In Vitro and In Vivo Activities of Anti-Influenza Virus Compound T-705*; Antimicrob. Agents Chemother., **46** 977
- 2) Takahashi *et al.* (2003), *In Vitro and In Vivo Activities of T-705 and Oseltamivir Against Influenza Virus*; Antivir. Chem. Chemother., **14** 235
- 3) Sleeman *et al.* (2010), *In Vitro Antiviral Activity of Favipiravir (T-705) against Drug-Resistant Influenza and 2009 A(H1N1) Viruses*; Antimicrob. Agents Chemother., **54** 2517
- 4) Furuta *et al.* (2005), *Mechanism of action of T-705 against influenza virus*; Antimicrob. Agents Chemother., **49** 981
- 5) Furuta *et al.* (2013), *Favipiravir (T-705), a Novel Viral RNA Polymerase Inhibitor*; Antiviral Res., **100** 446
- 6) Dong *et al.* (2020), *Discovering Drugs to Treat Coronavirus Disease 2019 (COVID-19)*; Drug Discov. Ther., **14** 58
- 7) Tu *et al.* (2020), *A Review of SARS-CoV-2 and the Ongoing Clinical Trials*; Int. J. Mol. Sci., **21** E2657

PHYSICAL DATA

Molecular Weight:	157.10
Molecular Formula:	C ₅ H ₄ FN ₃ O ₂
Purity:	>99% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (30 mg/ml); water (12 mg/mL with warming)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied, desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or water may be stored at -20°C for up to 3 months.

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