

Store at
-20°C

T-705 (Favipiravir)

#57214

10 mg



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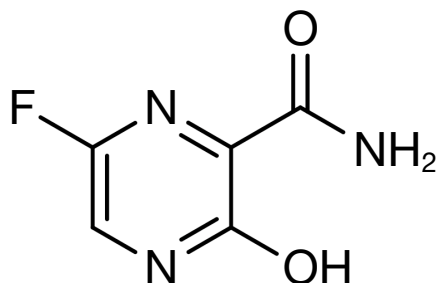
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New 05/20

For Research Use Only. Not For Use In Diagnostic Procedures.

Background: T-705 (Favipiravir) is a potent antiviral agent that has shown effectiveness against influenzas A, B, and C with IC_{50} values as follows: A (H1N1) = 0.03-0.20 $\mu\text{g/ml}$, A (H2N2) = 0.01-0.30 $\mu\text{g/ml}$, A (H3N2) = 0.08-0.48 $\mu\text{g/ml}$, A (H4N2) = 0.14-0.15 $\mu\text{g/ml}$, A (H7N2) = 0.24-1.60 $\mu\text{g/ml}$, B = 0.04-0.09 $\mu\text{g/ml}$, and C = 0.03-0.06 $\mu\text{g/ml}$ (1,2). T-705 (Favipiravir) becomes activated by phosphoribosylation to form T-705 (Favipiravir)-RTP that is recognized by RNA polymerase, inhibiting RNA-dependent RNA polymerase (RdRP). This activity makes T-705 (Favipiravir) an effective inhibitor of other RNA viruses, such as arena-, phlebo-, hanta-, flavi-, entero-, and alphavirus. The antiviral capability of T-705 (Favipiravir) makes it a compound of interest when studying SARS-CoV-2 infection (3).

Molecular Formula: $C_5H_4FN_3O_2$



Molecular Weight: 157.1 g/mol

Purity: >99%

CAS: 259793-96-9

Solubility: Soluble in DMSO at 30 mg/ml or water at 12 mg/ml with slight warming.

Storage: Store lyophilized at -20°C, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, store at -20°C and use within 3 months to prevent loss of potency. *Aliquot to avoid multiple freeze/thaw cycles.*

Directions for Use: T-705 (Favipiravir) is supplied as a lyophilized powder. For a 10 mM stock, reconstitute 2 mg of powder in 1.27 ml of DMSO. Working concentrations and length of treatment can vary depending on the desired effect.

Background References:

- (1) Furuta, Y. et al. (2013) *Antiviral Res* 100, 446-54.
- (2) Furuta, Y. et al. (2002) *Antimicrob Agents Chemother* 46, 977-81.
- (3) Dong, L. et al. (2020) *Drug Discov Ther* 14, 58-60.

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide **Species Cross-Reactivity:** H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.