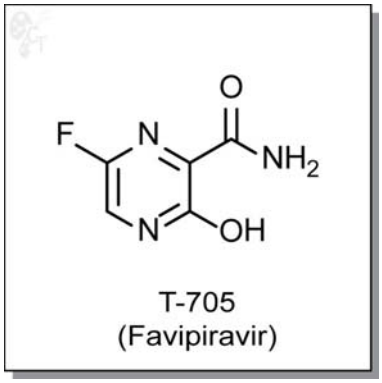
Product Specification Sheet

Product Name: T-705 (Favipiravir)

Catalog Number: C8705



T-705
(Favipiravir)

Technical information:

Chemical Formula:	$C_5H_4FN_3O_2$
CAS #:	259793-96-9
Molecular Weight:	157.1
Purity:	> 98%
Appearance:	off white solid
Solubility:	Soluble in DMSO up to 100 mM
Chemical Name:	6-fluoro-3-hydroxy-2-pyrazinecarboxamide
Storage:	Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.
Shelf Life:	In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months under proper storage condition.

Handling:

- To make 10 mM stock solution, add 0.637mL of DMSO for each mg of T-705 (Favipiravir).
- For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

Biological Activity:

T-705 (Favipiravir) is an antiviral pyrazinecarboxamide-based, inhibitor of of the influenza virus with an EC90 of 1.3 to 7.7 uM (influenza A, H5N1). EC90 ranges for other influenza A subtypes are 0.19-1.3 uM, 0.063-1.9 uM, and 0.5-3.1 uM for H1N1, H2N2, and H3N2, respectively. T-705 also exhibits activity against type B and C viruses, with EC90s of 0.25-0.57 uM and 0.19-0.36 uM, respectively. (1) Additionally, T-705 has broad activity against arenavirus, bunyavirus, foot-and-mouth disease virus, and West Nile virus with EC50s ranging from 5 to 300 uM. (1)

Studies show that T-705 ribofuranosyl triphosphate is the active form of T-705 and acts like purines or purine nucleosides in cells and does not inhibit DNA synthesis. (2)

Reference:

1. Furuta et al., T-705 (favipiravir) and related compounds: Novel broad-spectrum inhibitors of RNA viral infections. Antiviral Res. 2009, 82, 95-102. Pubmed ID: 19428599
2. Kiso et al., T-705 (favipiravir) activity against lethal H5N1 influenza A viruses. Proc. Natl. Acad. Sci. 2010, 107(2), 882-887. Pubmed ID: 20080770

To reorder: http://www.cellagentech.com/T-705-Favipiravir/

For Technical Support: technical@cellagentech.com

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