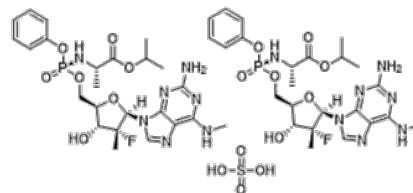


Product Name : AT-527
Cat. No. : PC-72626
CAS No. : 2241337-84-6
Molecular Formula : C₄₈H₆₈F₂N₁₄O₁₈P₂S
Molecular Weight : 1261.1563
Target : HCV
Solubility : 100 mM in DMSO (126.1 mg/mL)



Biological Activity

AT-527 (AT527, Bemnifosbuvir hemisulfate, RG-6422) is a novel phosphoramidate prodrug of AT-511 that has potent in vitro activity against **HCV** (EC₅₀=5-28 nM), also inhibits replication of **SARS-CoV-2** with EC₉₀ of 0.47 uM.

AT-527 shows similar potency against human coronavirus (HCoV)-229E, HCoV-OC43, and SARS-CoV in Huh-7 cells, with little to no cytotoxicity was observed for AT-511 at concentrations up to 100 uM.

Once in cells, AT-527 is converted into its triphosphate form, AT-9010, that presumably targets the viral RNA-dependent RNA polymerase (RdRp, nsp12), for incorporation into viral RNA.

AT-9010 outcompetes all native nucleotides for NiRAN binding, inhibiting its nucleotidyltransferase activity.

References

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Do TND, et al. *Antiviral Res.* 2021 Aug;192:105122.

Wang X, et al. *bioRxiv.* 2021 Jul 21:2021.07.21.453274.

Good SS, et al. *PLoS One.* 2020 Jan 8;15(1):e0227104.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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