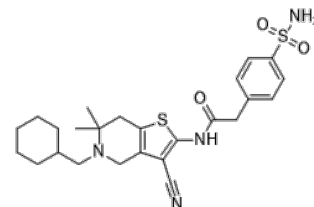


**Product Name** : NITD-688  
**Cat. No.** : PC-23167  
**CAS No.** : 2407227-31-8  
**Molecular Formula** : C<sub>25</sub>H<sub>32</sub>N<sub>4</sub>O<sub>3</sub>S<sub>2</sub>  
**Molecular Weight** : 500.68  
**Target** : Filovirus  
**Solubility** : 10 mM in DMSO



CAS: 2407227-31-8

## Biological Activity

NITD-688 (EYU688) is a potent, specific pan-serotype inhibitor of dengue virus (**DENV**) **NS4B** protein, shows EC<sub>50</sub> of 8-38 nM against all four DENV serotypes.

NITD-688 displays an EC<sub>50</sub> value of 0.94 nM in PBMCs were infected with DENV-2.

NITD-688 shows potent activity against DENV (EC<sub>50</sub> = 0.023 μM) in CPE assay, but not other flaviviruses or CHIKV.

NITD-688 directly binds to wild-type but not mutant NS4B with mutations T215A and A222V.

NITD-688 at 10, 30, or 100 mg/kg twice daily (BID) for 3 days or 30 mg/kg once daily (QD) for 3 days (oral gavage once daily (QD) or twice daily (BID) and was formulated in 0.5% methyl cellulose and 0.5% Tween 80 in water) reduces DENV-2 viremia during acute or delayed treatment of infected AG129 mice.

## References

Moquin SA, et al. *Sci Transl Med*. 2021 Feb 3;13(579):eabb2181.

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

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