

Product Data Sheet

Product Name: IRBM-Z-1

Cat. No.: GC78929

Chemical Properties

Cas. No. 67629-86-1

Formula $C_{19}H_{17}F_3N_4O_2$ M.Wt 390.36

Solubility DMSO: ≥ 100 mg/mL (256.17 mM) Storage Store at 4°C, away from moisture

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

IRBM-Z-1 is a non-competitive inhibitor of Zika virus (ZIKV) NS2B-NS3 protease, with an IC_{50} of 1.8 μ M. IRBM-Z-1 also exhibits inhibitory activity against the NS2B-NS3 proteases of T156I-mutated dengue virus 2 (DENV2) and West Nile virus (WNV), with IC_{50} values of 3.9 μ M and 4.7 μ M, respectively. IRBM-Z-1 inhibits ZIKV replication, attenuates virus-induced cytopathic effects. IRBM-Z-1 is applicable to research related to ZIKV infection [1].

In Vitro, IRBM-Z-1 (72 h) inhibits the replication of ZIKV replicons in stable Vero cells, with an EC_{50}

Caution: Product has not been fully validated for medical applications. For research use only.

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of 6.0 μM , and shows no cytotoxicity at concentrations up to 32 μM ^[1]. IRBM-Z-1 (6 days) inhibits the ZIKV-induced cytopathic effect in Vero cells, with an EC50 of 6.25 μM ^[1].

References:

[1]. Ontoria JM, et al. An allosteric inhibitor of the Zika virus NS2B-NS3 protease with oral efficacy in mouse models. Nat Commun. 2026;17(1):1439. Published 2026 Feb 10.

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