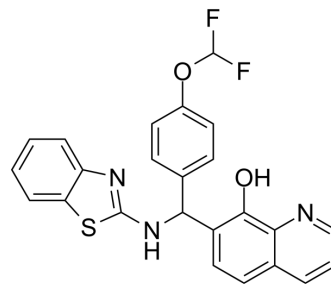


KIN1400

Cat. No.:	HY-123805
CAS No.:	446826-86-4
Molecular Formula:	C ₂₄ H ₁₇ F ₂ N ₃ O ₂ S
Molecular Weight:	449.47
Target:	HCV; IFNAR
Pathway:	Anti-infection; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	KIN1400 is a potent IRF3 activator. KIN1400 triggers IRF3-dependent innate immune antiviral genes (RIG-I, MDA5, IFIT1, and Mx1) and IFN- β expression. KIN1400 inhibits WNV and DV, two mosquito-borne members of the Flaviviridae and the genus Flavivirus. KIN1400 also inhibits HCV replication. KIN1400 induces innate antiviral immunity through a MAVS-IRF3 axis ^[1] .
In Vitro	KIN1400 (0-20 μ M, 20 h) induces the expression of the innate immune genes RIG-I (DDX58), IFIT1, and Mx1 in a dose-dependent fashion in PMA-differentiated THP-1 cells ^[1] . KIN1400 (0-20 μ M, 24 h) suppresses WNV RNA levels in a dose-dependent manner in HEK293 cells, with 2 μ M KIN1400 being sufficient to achieve a 50% or greater inhibition of WNV RNA levels ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Pattabhi S, et al. Targeting Innate Immunity for Antiviral Therapy through Small Molecule Agonists of the RLR Pathway. J Virol. 2015 Dec 16;90(5):2372-87.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA