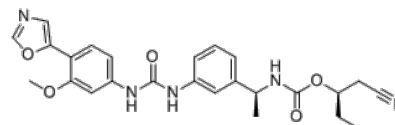


Product Name : AVN-944
Cat. No. : PC-49656
CAS No. : 297730-17-7
Molecular Formula : C₂₅H₂₇N₅O₅
Molecular Weight : 477.52
Target : IMPDH
Solubility : 10 mM in DMSO



Biological Activity

AVN-944 (VX-944) is a potent, selective, noncompetitive inhibitor of both human inosine 5-monophosphate dehydrogenase (IMPDH) isoforms (K_i=6-10 nM).

AVN-944 (VX-944) significantly inhibited the growth of MM cell lines RPMI8226, MM.1S, and U266 cells in a dose-dependent fashion with IC₅₀ of 450, 450, and 600 nM (48h), respectively.

AVN-944 (VX-944) also inhibited growth of drugresistant cell lines, including doxorubicin (Dox)-resistant RPMI8226-Dox40, melphalan (Mel) resistant

RPMI8226-LR5, and Dex (dexamethasone) resistant MM.1R cells, with IC₅₀ values similar to the parental drug-sensitive cell lines.

AVN-944 (VX-944) induced caspase-independent apoptosis in MM cells, induced modest cleavage of caspase 3, 8 and 9, enhances expression of Bax and Bak proteins.

AVN-944 (VX-944) augmented the cytotoxicity of doxorubicin and melphalan even in the presence of BMSCs.

AVN-944 (VX-944) also inhibits ZIKV Replication against ZIKV Paraiba/2015 in A549 cells.

References

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Park JG, et al. J Virol. 2020 Mar 17;94(7):e02149-19.

Morales Vasquez D, et al. Viruses. 2020 Sep 18;12(9):1041.

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

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