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Data Sheet

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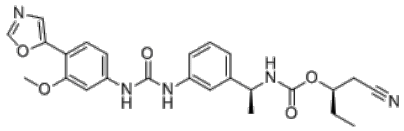

Product Name	:	AVN-944
Cat. No.	:	PC-49656
CAS No.	:	297730-17-7
Molecular Formula	:	$C_{25}H_{27}N_5O_5$
Molecular Weight	:	477.52
Target	:	IMPDH
Solubility	:	10 mM in DMSO

Biological Activity

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

E-mail: tech@probechem.com