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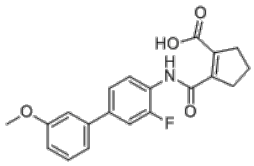
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	IMU-838
Cat. No.	:	PC-49175
CAS No.	:	717824-30-1
Molecular Formula	:	$C_{40}H_{34}CaF_2N_2O_8$
Molecular Weight	:	748.793
Target	:	Other Targets
Solubility	:	10 mM in DMSO



Biological Activity

Vidofludimus (IMU-838) is a selective and potent second-generation dihydroorotate dehydrogenase (DHODH) inhibitor with IC50 of 160 nM, shows anti-SARS-CoV-2 activity with EC50 of 7.6 uM in Vero cells.
Vidofludimus inhibits T cell proliferation with EC50 of 11.8 uM, with a similar effect on CpG ODN 2006-PTO dependent B cell proliferation.
Vidofludimus is specific for human DHODH and does not have off-target effect on kinases, is about 7.5-fold and about 64.4-fold more active on human DHODH as compared to rat DHODH and mouse DHODH, respectively.
Vidofludimus inhibits specifically IL–17F, IL–17A and IFN-g expression in PBMCs.
Vidofludimus is 2.6 times more potent in inhibiting DHO oxidation by human DHODH compared to teriflunomide (IC50=420 nM).
Vidofludimus shows inhibition of rat EAE motor signs in a rat experimental autoimmune encephalomyelitis (EAE) model.
Vidofludimus exerts a broad-spectrum activity against a selection of major human pathogenic viruses.

References

Muehler A, et al. Mult Scler Relat Disord. 2020 Aug;43:102129.

Hahn F, et al. Viruses. 2020 Dec 5;12(12):1394.

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

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