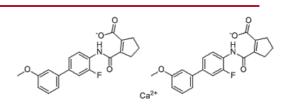


**Data Sheet** 

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Product Name	:	Vidofludimus calcium
Cat. No.	:	PC-49176
CAS No.	:	1354012-90-0
Molecular Formula	:	C <sub>20</sub> H <sub>18</sub> FNO <sub>4·1</sub> / <sub>2</sub> Ca
Molecular Weight	:	375.40
Target	:	Other Targets
Solubility	:	10 mM in DMSO



## **Biological Activity**

Vidofludimus calcium (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! E-mail: tech@probechem.com