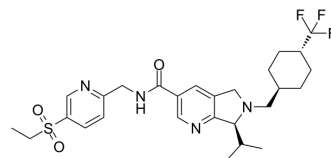


## Vimirogant

Cat. No.:	HY-103637
CAS No.:	1802706-04-2
Molecular Formula:	C <sub>27</sub> H <sub>35</sub> F <sub>3</sub> N <sub>4</sub> O <sub>3</sub> S
Molecular Weight:	552.65
Target:	ROR
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Vimirogant (VTP-43742) is a potent, selective, and orally active ROR $\gamma$ t inhibitor ( $K_i$ =3.5 nM; $IC_{50}$ =17 nM). Vimirogant exhibits >1000-fold selectivity versus the ROR $\alpha$ and ROR $\beta$ isotypes. Vimirogant inhibits Th17 differentiation and IL-17A secretion from mouse splenocytes ( $IC_{50}$ =57 nM) without affecting Th1, Th2, or Treg cell differentiation. Vimirogant has the potential for autoimmune disorders research <sup>[1][2]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	ROR $\gamma$ t 3.5 nM (K <sub>i</sub> )	ROR $\gamma$ t 17 nM (IC <sub>50</sub> )
<b>In Vitro</b>	Vimirogant inhibits the secretion of IL-17A from activated hPBMCs ( $IC_{50}$ =18 nM) and human whole blood ( $IC_{50}$ =192 nM) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
<b>In Vivo</b>	In the MOG35-55/CFA immunized mouse EAE model, Vimirogant (p.o.) significantly suppresses clinical symptoms, demyelination and mRNA expression of multiple inflammatory markers in the spinal cord <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

### REFERENCES

- [1]. Gege C. ROR $\gamma$ t inhibitors as potential back-ups for the phase II candidate VTP-43742 from Vitae Pharmaceuticals: patent evaluation of WO2016061160 and US20160122345. *Expert Opin Ther Pat.* 2017;27(1):1-8.
- [2]. Gerard McGeehan, et al. VTP-43742 is a potent and selective ROR $\gamma$ t blocker that demonstrates oral efficacy in a mouse model of autoimmunity through suppression of IL-17A production (THER7P.945). *J Immunol* May 1, 2015, 194 (1 Supplement) 208.5-208.5.

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

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