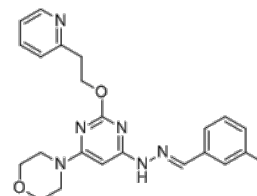


Product Name : Apilimod
Cat. No. : PC-60412
CAS No. : 541550-19-0
Molecular Formula : C₂₃H₂₆N₆O₂
Molecular Weight : 418.49
Target : PIKfyve
Solubility : 10 mM in DMSO



Biological Activity

Apilimod (STA5326) is a potent **IL-12/IL-23** inhibitor that down-regulates both IL-12 p35 and IL-12/IL-23 p40 at the transcriptional level, and inhibits the production of both IL-12 and IL-23 cytokines (IC₅₀=2 nM), inhibits **PIKfyve** phosphotransferase activity (IC₅₀=14 nM).

Apilimod (STA5326) suppresses Th1 but not Th2 immune response in mice.

Apilimod (STA5326) binds to **PIKfyve** and blocks its phosphotransferase activity (IC₅₀=14 nM), has no activity on PIP4K, PIP5K, mTOR, PI3K and PI4K isoforms.

Apilimod (STA5326) also potently blocks infections by EBOV and MARV in Huh 7, Vero E6 and primary human macrophage cells with IC₅₀ of 10 nM.

References

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Cai X, et al. *Chem Biol*. 2013 Jul 25;20(7):912-21.

Nelson EA, et al. *PLoS Negl Trop Dis*. 2017 Apr 12;11(4):e0005540.

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

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