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## Product Datasheet

**Apilimod, CAS [[541550-19-0]]**  
**FBM-10-4970**

Article Name	Apilimod, CAS [[541550-19-0]]
Biozol Catalog Number	FBM-10-4970
Supplier Catalog Number	10-4970
Alternative Catalog Number	FBM-10-4970-5MG,FBM-10-4970-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	IL/12 and 23/PIKfyve inhibitor...
Molecular Weight	418.50
Purity	99% by HPLC NMR (Conforms)
Form	White solid
CAS Number	[541550-19-0]
Formula	C23H26N6O2
Application Notes	<p>Potent (IC<sub>50</sub> = 10 nM IFN-g/LPS-stimulated human PMBCs, IC<sub>50</sub> = 1 nM in IFN-g/SAC-stimulated human PMBCs) IL-12/IL-23 inhibitor downregulating both at the transcriptional level. Suppresses Th1 but not Th2 immune response.<sup>1</sup> Inhibition was also observed in human monocytes, monocyte-derived dendritic cells, and THP-1 cells. Apilimods mechanism of action is mediation of TLR signaling via inhibition of phosphatidylinositol-3-phosphate 5-kinase (PIKfyve, IC<sub>50</sub> = 14 nM).<sup>2</sup> It displayed selective cytotoxic activity in B-cell non-Hodgkin lymphoma compared with normal cells.<sup>3</sup> Apilimod prevented infection of VSV-ZEBOV and VSV-SARS-CoV-2 (IC<sub>50</sub> = 50 nM) as well as SARS-CoV-2 strain 2019-nCoV/USA-1WA/2020.<sup>4</sup></p>