

Please note: This document was created automatically and is not a substitute for the manufacturer's original document.

## 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> |