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## Product Datasheet

**SP100030, CAS [[154563-54-9]]**

**FBM-10-3996**

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| Article Name               | SP100030, CAS [[154563-54-9]]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Biozol Catalog Number      | FBM-10-3996                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Supplier Catalog Number    | 10-3996                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Alternative Catalog Number | FBM-10-3996-5MG,FBM-10-3996-25MG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Manufacturer               | Focus Biomolecules                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Category                   | Biochemikalien                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Product Description        | Dual NF-kB / AP-1 inhibitor...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Molecular Weight           | 437.65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Purity                     | >98% by HPLC, NMR (conforms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Form                       | Off-white solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| CAS Number                 | [154563-54-9]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Formula                    | C14H5ClF9N3O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Application Notes          | <p>SP100030 is a potent dual inhibitor of NF-kB- and AP-1-mediated gene expression (IC50s = 50 nM for both in transfected Jurkat T-cells).<sup>1</sup> It was able to specifically block IL-2 and IL-8 in Jurkat T-cells (IC50s = 30 nM for both).<sup>1</sup> SP100030 treatment significantly decreased arthritis severity in DBA/1J mice.<sup>2</sup> It selectively inhibited CD8(+) T-cells and mRNA expression of TH1 and Th2 cytokines in a rat model of asthma but did not inhibit allergen-induced eosinophilia and bronchial hyperresponsiveness.<sup>3</sup> SP100030 ameliorated muscle wasting in a cancer cachexia rat model.<sup>4</sup> SP100030 suppression of T cell activation has been attributed to targeting of XPO1 (with minimal impact on nuclear export and cell viability).<sup>5</sup></p> |