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## Product Datasheet

### PF-543 HCl FBM-10-4998

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| Article Name               | PF-543 HCl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Biozol Catalog Number      | FBM-10-4998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Supplier Catalog Number    | 10-4998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Alternative Catalog Number | FBM-10-4998-5MG,FBM-10-4998-25MG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Manufacturer               | Focus Biomolecules                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Category                   | Biochemikalien                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Product Description        | Sphingosine kinase-1 inhibitor...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Molecular Weight           | 502.07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Purity                     | >98% by HPLC NMR (Conforms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Form                       | White solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| CAS Number                 | [1706522-79-3]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Formula                    | C27H31NO4SHCl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Application Notes          | PF-543 (1706522-79-3) is a potent (IC <sub>50</sub> = 2.0 nM) and selective (>100-fold over SphK2) reversible inhibitor of sphingosine kinase-1 (SphK1). <sup>1</sup> It induced autophagy in head and neck squamous cell carcinoma cells. <sup>2</sup> PF-543 mitigated pulmonary fibrosis via reducing lung epithelial cell mitochondrial DNA damage and monocyte recruitment. <sup>3</sup> It also alleviated sepsis-induced lung injury in an acute ethanol intoxication model in mice. <sup>4</sup> PF-543 inhibited cell cycle and tumor growth in a xenograft model of non-small cell lung cancer. <sup>5</sup> |