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## Product Datasheet

### PF-543 HCl, CAS [[1706522-79-3]] FBM-10-4998

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Artikelname              | PF-543 HCl, CAS [[1706522-79-3]]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Artikelnummer            | FBM-10-4998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Hersteller Artikelnummer | 10-4998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Alternativnummer         | FBM-10-4998-5MG, FBM-10-4998-25MG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Hersteller               | Focus Biomolecules                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Kategorie                | Biochemikalien                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Produktbeschreibung      | Sphingosine kinase-1 inhibitor...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Molekulargewicht         | 502.07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Reinheit                 | >98% by HPLC NMR (Conforms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Formulierung             | White solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| CAS Nummer               | [1706522-79-3]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Formel                   | C27H31NO4SHCl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Anwendungsbeschreibung   | 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> |