

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

## Product Datasheet

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

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article Name               | PF-543 HCl, CAS [[1706522-79-3]]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 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 (IC50 = 2.0 nM) and selective (>100-fold over SphK2) reversible inhibitor of sphingosine kinase-1 (SphK1).1 It induced autophagy in head and neck squamous cell carcinoma cells.2 PF-543 mitigated pulmonary fibrosis via reducing lung epithelial cell mitochondrial DNA damage and monocyte recruitment.3 It also alleviated sepsis-induced lung injury in an acute ethanol intoxication model in mice.4 PF-543 inhibited cell cycle and tumor growth in a xenograft model of non-small cell lung cancer.5 |