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## 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	C <sub>27</sub> H <sub>31</sub> NO <sub>4</sub> SHCl
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>