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## Product Datasheet

**Vacuolin-1**  
**FBM-10-5151**

Article Name	Vacuolin-1
Biozol Catalog Number	FBM-10-5151
Supplier Catalog Number	10-5151
Alternative Catalog Number	FBM-10-5151-5MG,FBM-10-5151-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	PIKfyve inhibitor...
Molecular Weight	577.43
Purity	>98% by TLC, NMR (Conforms)
Form	White solid
CAS Number	[351986-85-1]
Formula	C <sub>26</sub> H <sub>24</sub> N <sub>7</sub> O
Application Notes	<p>Vacuolin-1 (351986-85-1) inhibits autophagy via inhibition of Ca<sup>2+</sup>-dependent fusion of lysosomes with the plasma membrane and the release of lysosomal content and has no effect on other membrane-bound organelles.<sup>1</sup> It has been shown to block endosome maturation by activating RAB5 which compromises the biogenesis and function of lysosomes including autophagosomal-lysosomal fusion and endosomal-lysosomal degradation.<sup>2</sup> It potently inhibits migration, invasion and colony formation of cancer cells (which is linked to endosomal trafficking) and targets capping protein Zbeta (CapZbeta) in these processes.<sup>3</sup> Inhibition of lysosomal maturation was shown to be due to potent inhibition of PIKfyve.<sup>4</sup></p>