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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 ₂₆ H ₂₄ N ₇ O
Application Notes	Vacuolin-1 (351986-85-1) inhibits autophagy via inhibition of Ca²⁺-dependent fusion of lysosomes with the plasma membrane and the release of lysosomal content and has no effect on other membrane-bound organelles.¹ 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.² 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.³ Inhibition of lysosomal maturation was shown to be due to potent inhibition of PIKfyve.⁴