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Product Datasheet

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

Artikelname	Vacuolin-1
Artikelnummer	FBM-10-5151
Hersteller Artikelnummer	10-5151
Alternativnummer	FBM-10-5151-5MG,FBM-10-5151-25MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	PIKfyve inhibitor...
Molekulargewicht	577.43
Reinheit	>98% by TLC, NMR (Conforms)
Formulierung	White solid
CAS Nummer	[351986-85-1]
Formel	C ₂₆ H ₂₄ IN ₇ O

Anwendungsbeschreibung	Vacuolin-1 (351986-85-1) inhibits autophagy via inhibition of Ca^{2+}-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
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