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## Product Datasheet

### ML-SA1 FBM-10-1439

Article Name	ML-SA1
Biozol Catalog Number	FBM-10-1439
Supplier Catalog Number	10-1439
Alternative Catalog Number	FBM-10-1439-10MG,FBM-10-1439-50MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	TRPML activator...
Molecular Weight	362.43
Purity	98% by HPLC NMR (Conforms)
Form	Tan solid
CAS Number	[332382-54-4]
Formula	C22H22N2O3
Application Notes	<p>TRPML 1,2 and 3 channel activator.1 Does not activate TRPM2, TRPV2, TRPV3, TRPC6 or TRPA1 channels.2 ML-SA1 robustly activates whole cell TRPML1-4A and whole-endolysosome TRPML1 and is comparable (10 µM) to the effect of the endogenous TRPML agonist, PI(3,5)P2 (1 µM).2 Thus it is a useful chemical tool for studying the functions of TRPMLs. It induces TRPML-mediated Ca<sup>2+</sup> release from lysosomes which corrects trafficking defects and reduces cholesterol accumulation in Niemann-Pick type C macrophages.2,3 Reduces intralysosomal Ca<sup>2+</sup> level rescuing abnormal lysosomal storage in FIG4-deficient cells.4</p>