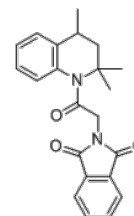


Product Name : ML-SA1
Cat. No. : PC-73025
CAS No. : 332382-54-4
Molecular Formula : C₂₂H₂₂N₂O₃
Molecular Weight : 362.429
Target : TRP Channel
Solubility : 10 mM in DMSO



Biological Activity

ML-SA1 (Mucolipin-specific synthetic agonist 1) is a potent synthetic agonist for **TRPML1**.

ML-SA1 induces significant [Ca²⁺]_{cyt} increases in HEK293 cells stably- or transiently-expressing ML1-4A.

ML-SA1 targets all three TRPMLs, the expression levels of TRPML2 and TRPML3 are very low, and TRPML1 is the predominant lysosomal TRPML channel.

ML-SA1 induces TRPML1-mediated Ca²⁺ release from lysosomes.

ML-SA1 and TRPML1 overexpression rescue the trafficking defects and reduce cholesterol accumulation in NPC cells.

References

Dongbiao Shen, et al. *Nat Commun.* 2012 Mar 13;3:731.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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