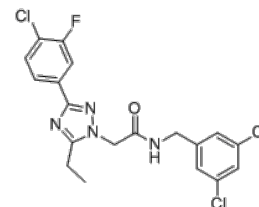


Product Name : PDE4 activator MR-L2
Cat. No. : PC-73022
CAS No. : 2374703-19-0
Molecular Formula : C₁₉H₁₆Cl₃FN₄O
Molecular Weight : 441.712
Target : Phosphodiesterase (PDE)
Solubility : 10 mM in DMSO



Biological Activity

PDE4 activator MR-L2 (MR-L2) is a small-molecule **PDE4 activator**, phenocopies PKA-mediated activation of long PDE4 isoforms.

MR-L2 reduces intracellular cAMP in MDCK cells without affecting PDE4 expression or cell viability.

MR-L2 suppresses the maximal cyst response elicited by both direct and indirect activation of adenylyl cyclase.

MR-L2 inhibits cyst formation in human models of ADPKD, also clearly suppresses the number of cysts formed in 3D culture in both unstimulated and vasopressin-treated (10 nM) cell cultures

References

Omar F, et al. *Proc Natl Acad Sci U S A*. 2019 Jul 2;116(27):13320-13329.

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

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