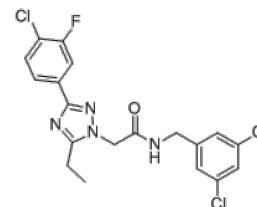


**Product Name** : PDE4 activator MR-L2  
**Cat. No.** : PC-73022  
**CAS No.** : 2374703-19-0  
**Molecular Formula** : C<sub>19</sub>H<sub>16</sub>Cl<sub>3</sub>FN<sub>4</sub>O  
**Molecular Weight** : 441.712  
**Target** : Phosphodiesterase (PDE)  
**Solubility** :



## 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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