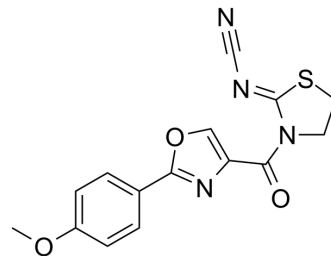


## PDE4-IN-9

Cat. No.:	HY-146974
CAS No.:	2519450-32-7
Molecular Formula:	C <sub>15</sub> H <sub>12</sub> N <sub>4</sub> O <sub>3</sub> S
Molecular Weight:	328.35
Target:	Phosphodiesterase (PDE)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

### Description

PDE4-IN-9 (Compound 5j) is a potent inhibitor of PDE4. PDE4-IN-9 exhibits lower IC<sub>50</sub> value (1.4 μM) against PDE4 than parent rolipram (2.0 μM) in in vitro enzyme assay. PDE4-IN-9 also displays good in vivo activity in animal models of asthma/COPD and sepsis induced by LPS<sup>[1]</sup>.

## REFERENCES

[1]. Lin Y, et al. Synthesis and bioactivity of phenyl substituted furan and oxazole carboxylic acid derivatives as potential PDE4 inhibitors. *Eur J Med Chem.* 2020 Dec 1;207:112795.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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