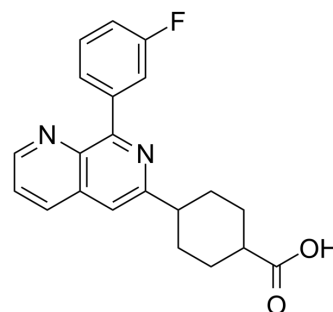


## PDE4-IN-11

Cat. No.:	HY-150060
CAS No.:	524734-30-3
Molecular Formula:	C <sub>21</sub> H <sub>19</sub> FN <sub>2</sub> O <sub>2</sub>
Molecular Weight:	350.39
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-11 is an inhibitor of phosphodiesterase isoenzyme 4 (PDE4). PDE4-IN-11 displays highly effective bronchodilatory and anti-inflammatory properties, can be used for obstructive or inflammatory airway diseases research <sup>[1][2][3]</sup> .
IC <sub>50</sub> & Target	PDE4
In Vitro	PDE4-IN-11 (example 12) exerts function in the monocrotaline reversal model of pulmonary hypertension <sup>[2]</sup> . PDE4-IN-11 (compound A1) displays antiinflammatory, anti-airways hyperreactivity and bronchodilator properties. PDE4-IN-11 also possesses immunosuppressive and TNF $\alpha$ secretion inhibitory activities <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Denholm A, et al. Preparation of naphthyridines as phosphodiesterase isoenzyme 4 (PDE4) inhibitors: World Intellectual Property Organization, WO2003039544[P]. 2003-05-15.
- [2]. McCarthy C, et al. Use of naphthyridine derivatives as medicaments for the treatment of pulmonary hypertension: World Intellectual Property Organization, WO2007088019[P]. 2007-08-09.
- [3]. Press NJ, et al. Organic compounds for treating pulmonary hypertension: World Intellectual Property Organization, WO2009013286. 2009-01-29.

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

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