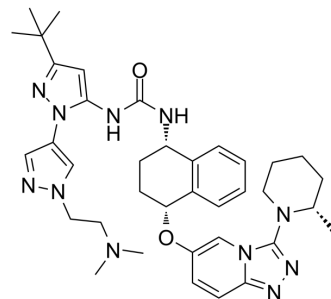


## p38- $\alpha$ MAPK-IN-5

Cat. No.:	HY-147518
CAS No.:	1443242-46-3
Molecular Formula:	C <sub>37</sub> H <sub>49</sub> N <sub>11</sub> O <sub>2</sub>
Molecular Weight:	679.86
Target:	p38 MAPK
Pathway:	MAPK/ERK Pathway
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	p38- $\alpha$ MAPK-IN-5 (compound 4e) is a potent p38 $\alpha$ inhibitor with IC <sub>50</sub> s of 0.1 nM, 0.2 nM, 944 nM, 4100 nM for p38 $\alpha$ , p38 $\beta$ , p38 $\gamma$ , p38 $\delta$ , respectively. p38- $\alpha$ MAPK-IN-5 has anti-inflammatory effect. p38- $\alpha$ MAPK-IN-5 has the potential for asthma and chronic obstructive pulmonary disease (COPD) research <sup>[1]</sup> .			
<b>IC<sub>50</sub> &amp; Target</b>	p38 $\alpha$ 0.1 nM (IC <sub>50</sub> )	p38 $\beta$ 0.2 nM (IC <sub>50</sub> )	p38 $\gamma$ 944 nM (IC <sub>50</sub> )	p38 $\delta$ 4100 nM (IC <sub>50</sub> )

### REFERENCES

[1]. Elisabetta Armani, et al. Design, Synthesis, and Biological Characterization of Inhaled p38 $\alpha$ / $\beta$  MAPK Inhibitors for the Treatment of Lung Inflammatory Diseases. J Med Chem. 2022 May 26;65(10):7170-7192.

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

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