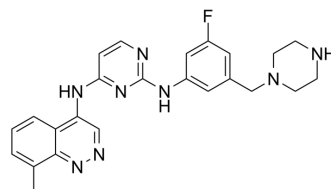


## ALK5-IN-29

<b>Cat. No.:</b>	HY-151277
<b>CAS No.:</b>	2785430-85-3
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>25</sub> FN <sub>8</sub>
<b>Molecular Weight:</b>	444.51
<b>Target:</b>	Anaplastic lymphoma kinase (ALK)
<b>Pathway:</b>	Protein Tyrosine Kinase/RTK
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	ALK5-IN-29 is a selective activin receptor-like kinase (ALK) inhibitor. ALK5-IN-29 can inhibit the activity of ALK5 with an IC <sub>50</sub> value of ≤10 nM. ALK5-IN-29 also has inhibitory of tumor growth and can be used for the research of proliferative diseases, such as cancer <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : ≤10 nM (ALK5/2); ≤100 nM (RD-SMAD receptor) <sup>[1]</sup>
<b>In Vitro</b>	ALK5-IN-29 (EX-06) has kinase inhibition of ALK5 with an IC <sub>50</sub> value of ≤10 nM <sup>[1]</sup> . ALK5-IN-29 has kinase selectivity of ALK2/ALK5 with an IC <sub>50</sub> value of ≤10 nM <sup>[1]</sup> . ALK5-IN-29 shows TGFβ-RI inhibition (RD-SMAD receptor activity) with an IC <sub>50</sub> value of ≤100 nM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Bettina FRANZ, et al. Alk-5 inhibitors and uses thereof. Patent. WO2022126133A1.

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

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