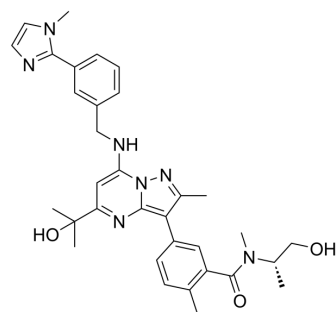


## PI4KIIIbeta-IN-11

<b>Cat. No.:</b>	HY-148075
<b>CAS No.:</b>	2365241-79-6
<b>Molecular Formula:</b>	C <sub>33</sub> H <sub>39</sub> N <sub>7</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	581.71
<b>Target:</b>	PI4K
<b>Pathway:</b>	PI3K/Akt/mTOR
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	PI4KIIIbeta-IN-11 is an inhibitor of PI4KIIIβ, with a mean pIC <sub>50</sub> value of at least 9.1. PI4KIIIβ plays a key role in diseases research of RNA viruses and Plasmodium falciparum <sup>[1][2]</sup> .									
<b>IC<sub>50</sub> &amp; Target</b>	PI4KIIIβ 9.1 (pIC <sub>50</sub> )									
<b>In Vitro</b>	<p>PI4KIIIβ may be a relevant target protein for inhibition of Hedgehog signaling, and regulates trafficking from the Golgi system to the plasma membrane<sup>[1]</sup>.</p> <p>PI4KIIIbeta-IN-11 (compound 22) (0.5 μM; 0-45 min) shows metabolic stability in human microsomes, with the intrinsic clearance of 33.7 mL/min/g<sup>[2]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>									
<b>In Vivo</b>	<p>PI4KIIIbeta-IN-11 (compound 22) (1 mg/kg; i.v.; last over 1 h) displays a low spleen concentration in rats<sup>[2]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Male Wistar Han Rats<sup>[2]</sup></td> </tr> <tr> <td>Dosage:</td> <td>1 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Intravenous injection, formulated in 2% DMSO in Kleptose (aq, 10% w/v); over 1 hour; euthanised at 12 h</td> </tr> <tr> <td>Result:</td> <td>Showed a low concentration in spleen of 5.54 ng/g.</td> </tr> </table>		Animal Model:	Male Wistar Han Rats <sup>[2]</sup>	Dosage:	1 mg/kg	Administration:	Intravenous injection, formulated in 2% DMSO in Kleptose (aq, 10% w/v); over 1 hour; euthanised at 12 h	Result:	Showed a low concentration in spleen of 5.54 ng/g.
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### REFERENCES

[1]. Kremer L, et al. Discovery of the Hedgehog Pathway Inhibitor Pipinib that Targets PI4KIIIβ. Angew Chem Int Ed Engl. 2019 Nov 11;58(46):16617-16628.

[2]. Barton Nicholas Paul, et al. Preparation of pyrazolopyrimidinamines derivatives as PI4kIII-beta inhibitors: World Intellectual Property Organization, WO2019141694. 2019-07-25.

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

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