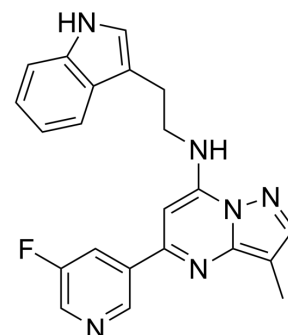


KYN-101

Cat. No.:	HY-134217												
CAS No.:	2247950-73-6												
Molecular Formula:	C ₂₂ H ₁₉ FN ₆												
Molecular Weight:	386.42												
Target:	Aryl Hydrocarbon Receptor												
Pathway:	Immunology/Inflammation												
Storage:	<table border="0"> <tr> <td>Powder</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td></td> <td>4°C</td> <td>2 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>6 months</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 month</td> </tr> </table>	Powder	-20°C	3 years		4°C	2 years	In solvent	-80°C	6 months		-20°C	1 month
Powder	-20°C	3 years											
	4°C	2 years											
In solvent	-80°C	6 months											
	-20°C	1 month											



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (258.79 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.5879 mL	12.9393 mL	25.8786 mL
5 mM	0.5176 mL	2.5879 mL	5.1757 mL
10 mM	0.2588 mL	1.2939 mL	2.5879 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

KYN-101 is a potent, selective and orally active AHR inhibitor. KYN-101 decreases the CYP1A1 mRNA expression. KYN-101 shows anti-cancer activity^[1].

In Vitro

KYN-101 (0.5, 1 μM; 24 h) decreases the CYP1A1 mRNA expression in IDO^{high} samples^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

KYN-101 (10 mg/kg; p.o.; daily for 12 days) shows anti-cancer activity in mice^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	6-8 weeks, C57BL/6J mice (B16ID0 tumor-bearing mice) ^[1]
Dosage:	10 mg/kg
Administration:	P.o.; daily for 12 days

Result:	Reduced tumor growth in B16ID0 tumor-bearing mice and combination of KYN-101 and anti-PD-1 led to improved tumor growth delay and extended survival in CT26 models.
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REFERENCES

[1]. Campesato LF, et al. Blockade of the AHR restricts a Treg-macrophage suppressive axis induced by L-Kynurenine. Nat Commun. 2020 Aug 11;11(1):4011.

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

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