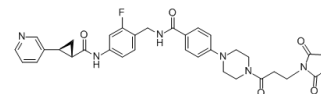


NAMPT inhibitor-linker 2

Cat. No.:	HY-112616
CAS No.:	2241014-82-2
Molecular Formula:	C ₃₄ H ₃₃ FN ₆ O ₅
Molecular Weight:	624.66
Target:	Nampt; Drug-Linker Conjugates for ADC
Pathway:	Metabolic Enzyme/Protease; Antibody-drug Conjugate/ADC Related
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	NAMPT inhibitor-linker 2 is a drug-linker conjugates for ADC, composed of an NAMPT inhibitor as a payload, and a linker. ADC-4 consists of an NAMPT inhibitor-linker 2 and an anti-c-Kit monoclonal antibody, exhibits potent activity against c-Kit expressing cell lines such as GIST-T1 and NCI-H526, with IC ₅₀ s of <7 pM and 40 pM, respectively.								
In Vitro	<p>ADC-4 exhibits potent activity against c-Kit expressing cell lines such as GIST-T1 and NCI-H526, with IC₅₀s of <7 pM and 40 pM, respectively^[1].</p> <p>ADC-4 (0.01 nM-10 nM, 144 hours) inhibits cell proliferation of GIST-T1 cells, but does not affect the cell cycle^[1].</p> <p>Cell Proliferation Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>GIST-T1 cells</td> </tr> <tr> <td>Concentration:</td> <td>0.1 pM-10 nM</td> </tr> <tr> <td>Incubation Time:</td> <td>144 hours</td> </tr> <tr> <td>Result:</td> <td>Inhibited the cell proliferation of GIST-T1 cells at 0.01-10 nM, and the inhibition remained unchanged after 1 nM.</td> </tr> </table>	Cell Line:	GIST-T1 cells	Concentration:	0.1 pM-10 nM	Incubation Time:	144 hours	Result:	Inhibited the cell proliferation of GIST-T1 cells at 0.01-10 nM, and the inhibition remained unchanged after 1 nM.
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In Vivo	<p>ADC-4 (20 mg/kg, i.v. for 28 days) is tolerated, and causes tumor stasis in mice bearing GIST-T1 cells^[1].</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Female scid-beige (SCID bg) mice^[1]</td> </tr> <tr> <td>Dosage:</td> <td>20 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>A single intravenous injection (i.v.) for 28 days</td> </tr> <tr> <td>Result:</td> <td>Significantly inhibited the growth of tumor in mice.</td> </tr> </table>	Animal Model:	Female scid-beige (SCID bg) mice ^[1]	Dosage:	20 mg/kg	Administration:	A single intravenous injection (i.v.) for 28 days	Result:	Significantly inhibited the growth of tumor in mice.
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REFERENCES

[1]. Karpov AS, et al. Nicotinamide Phosphoribosyltransferase Inhibitor as a Novel Payload for Antibody-Drug Conjugates. ACS Med Chem Lett. 2018 Jun

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

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