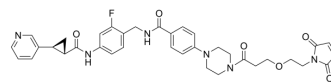


## NAMPT inhibitor-linker 1

Cat. No.:	HY-112615
CAS No.:	2241019-57-6
Molecular Formula:	C <sub>36</sub> H <sub>37</sub> FN <sub>6</sub> O <sub>6</sub>
Molecular Weight:	668.71
Target:	Drug-Linker Conjugates for ADC
Pathway:	Antibody-drug Conjugate/ADC Related
Storage:	-20°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 12.5 mg/mL (18.69 mM); ultrasonic and warming and heat to 60°C				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	1.4954 mL	7.4771 mL	14.9542 mL
		5 mM	0.2991 mL	1.4954 mL	2.9908 mL
		10 mM	0.1495 mL	0.7477 mL	1.4954 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.25 mg/mL (1.87 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (1.87 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (1.87 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	NAMPT inhibitor-linker 1 is a agent-linker conjugates for ADC, composed of an NAMPT inhibitor as a payload, and a linker. ADC-3 consists of an NAMPT inhibitor-linker 1 and an anti-c-Kit monoclonal antibody, exhibits potent activity against c-Kit expressing cell lines such as GIST-T1 and NCI-H526 cells, with IC <sub>50</sub> s of <3 pM and 9 pM, respectively.
IC <sub>50</sub> & Target	Traditional Cytotoxic Agents
In Vitro	ADC-3 exhibits potent activity against c-Kit expressing cell lines such as GIST-T1 and NCI-H526, with IC <sub>50</sub> s of <3 pM and 9 pM, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

**In Vivo**

ADC-3 (20 mg/kg, i.v. for 28 days) is tolerated, and causes tumor stasis in mice bearing GIST-T1 cells<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Female scid-beige (SCID bg) mice <sup>[1]</sup>
Dosage:	20 mg/kg
Administration:	A single intravenous injection (i.v.) for 28 days
Result:	Significantly inhibited the growth of tumor in mice.

**REFERENCES**

[1]. Karpov AS, et al. Nicotinamide Phosphoribosyltransferase Inhibitor as a Novel Payload for Antibody-Drug Conjugates. ACS Med Chem Lett. 2018 Jun 28;9(8):838-842.

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

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