



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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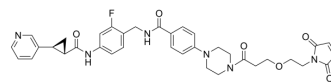
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## NAMPT inhibitor-linker 1

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	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 1.25 mg/mL (1.87 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (1.87 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 1.25 mg/mL (1.87 mM); Clear solution</li> </ol>				

### 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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