



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

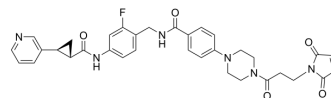
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## NAMPT inhibitor-linker 2

<b>Cat. No.:</b>	HY-112616
<b>CAS No.:</b>	2241014-82-2
<b>Molecular Formula:</b>	C <sub>34</sub> H <sub>33</sub> FN <sub>6</sub> O <sub>5</sub>
<b>Molecular Weight:</b>	624.66
<b>Target:</b>	NAMPT; Drug-Linker Conjugates for ADC
<b>Pathway:</b>	Metabolic Enzyme/Protease; Antibody-drug Conjugate/ADC Related
<b>Storage:</b>	Powder    -20°C    3 years 4°C        2 years In solvent   -80°C    6 months -20°C    1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 50 mg/mL (80.04 mM; Need ultrasonic)																			
	<table border="1"> <thead> <tr> <th rowspan="2">Concentration</th> <th colspan="3">Mass</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>1.6009 mL</td> <td>8.0044 mL</td> <td>16.0087 mL</td> </tr> <tr> <td>5 mM</td> <td>0.3202 mL</td> <td>1.6009 mL</td> <td>3.2017 mL</td> </tr> <tr> <td>10 mM</td> <td>0.1601 mL</td> <td>0.8004 mL</td> <td>1.6009 mL</td> </tr> </tbody> </table>	Concentration	Mass			1 mg	5 mg	10 mg	1 mM	1.6009 mL	8.0044 mL	16.0087 mL	5 mM	0.3202 mL	1.6009 mL	3.2017 mL	10 mM	0.1601 mL	0.8004 mL	1.6009 mL
	Concentration		Mass																	
		1 mg	5 mg	10 mg																
1 mM	1.6009 mL	8.0044 mL	16.0087 mL																	
5 mM	0.3202 mL	1.6009 mL	3.2017 mL																	
10 mM	0.1601 mL	0.8004 mL	1.6009 mL																	
Please refer to the solubility information to select the appropriate solvent.																				
<b>In Vivo</b>	<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: ≥ 2.5 mg/mL (4.00 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.00 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (4.00 mM); Clear solution</li> </ol>																			

### BIOLOGICAL ACTIVITY

<b>Description</b>	NAMPT inhibitor-linker 2 is a agent-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 <sub>50</sub> s of <7 pM and 40 pM, respectively.
<b>IC<sub>50</sub> &amp; Target</b>	Traditional Cytotoxic Agents
<b>In Vitro</b>	ADC-4 exhibits potent activity against c-Kit expressing cell lines such as GIST-T1 and NCI-H526, with IC <sub>50</sub> s of <7 pM and 40

pM, respectively<sup>[1]</sup>.

ADC-4 (0.01 nM-10 nM, 144 hours) inhibits cell proliferation of GIST-T1 cells, but does not affect the cell cycle<sup>[1]</sup>.

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

Cell Proliferation Assay<sup>[1]</sup>

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.

#### In Vivo

ADC-4 (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.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA