



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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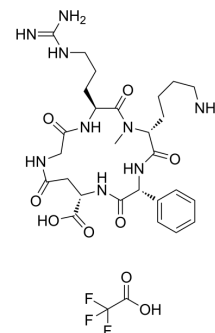
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## c(phg-isoDGR-(NMe)k) TFA

<b>Cat. No.:</b>	HY-111413A
<b>Molecular Formula:</b>	C <sub>29</sub> H <sub>42</sub> F <sub>3</sub> N <sub>9</sub> O <sub>9</sub>
<b>Molecular Weight:</b>	717.69
<b>Target:</b>	Integrin
<b>Pathway:</b>	Cytoskeleton
<b>Storage:</b>	-20°C, sealed storage, away from moisture
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 250 mg/mL (348.34 mM; Need ultrasonic)					
		Solvent Concentration	Mass			
	<b>Preparing Stock Solutions</b>			1 mg	5 mg	10 mg
		1 mM		1.3934 mL	6.9668 mL	13.9336 mL
		5 mM		0.2787 mL	1.3934 mL	2.7867 mL
10 mM		0.1393 mL	0.6967 mL	1.3934 mL		
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (2.90 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (2.90 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (2.90 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	c(phg-isoDGR-(NMe)k) TFA is a selective and potent α5β1-integrin ligand with an IC <sub>50</sub> of 2.9 nM <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 2.9 nM (α5β1) <sup>[1]</sup>
<b>In Vivo</b>	c(phg-isoDGR-(NMe)k) TFA is trimerized with the chelator TRAP and used as a positron-emission tomography tracer for monitoring α5β1 integrin expression in a M21 mouse xenograft <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Kapp TG, et al. N-Methylation of isoDGR Peptides: Discovery of a Selective  $\alpha 5\beta 1$ -Integrin Ligand as a Potent Tumor Imaging Agent. J Med Chem. 2018 Mar 22;61(6):2490-2499.

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

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