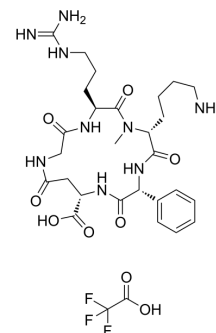


c(phg-isoDGR-(NMe)k) TFA

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



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (348.34 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		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.					
In Vivo	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

Description	c(phg-isoDGR-(NMe)k) TFA is a selective and potent α5β1-integrin ligand with an IC ₅₀ of 2.9 nM ^[1] .
IC₅₀ & Target	IC ₅₀ : 2.9 nM (α5β1) ^[1]
In Vivo	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 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[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.

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

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