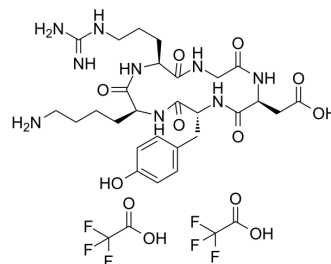


## Cyclo(RGDyK) trifluoroacetate

<b>Cat. No.:</b>	HY-100563
<b>CAS No.:</b>	250612-42-1
<b>Molecular Formula:</b>	C <sub>31</sub> H <sub>43</sub> F <sub>6</sub> N <sub>9</sub> O <sub>12</sub>
<b>Molecular Weight:</b>	847.72
<b>Sequence Shortening:</b>	RGDYK
<b>Target:</b>	Integrin
<b>Pathway:</b>	Cytoskeleton
<b>Storage:</b>	Sealed storage, away from moisture
	Powder    -80°C    2 years
	-20°C    1 year

\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 130 mg/mL (153.35 mM)  
 H<sub>2</sub>O : 100 mg/mL (117.96 mM; Need ultrasonic)  
 \* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.1796 mL	5.8982 mL	11.7963 mL
	5 mM	0.2359 mL	1.1796 mL	2.3593 mL
	10 mM	0.1180 mL	0.5898 mL	1.1796 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
 Solubility: ≥ 2.17 mg/mL (2.56 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: ≥ 2.17 mg/mL (2.56 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: 2.17 mg/mL (2.56 mM); Clear solution; Need warming

### BIOLOGICAL ACTIVITY

#### Description

Cyclo(RGDyK) trifluoroacetate is a potent and selective α<sub>v</sub>β<sub>3</sub> integrin inhibitor with an IC<sub>50</sub> of 20 nM.

#### IC<sub>50</sub> & Target

α<sub>v</sub>β<sub>3</sub>  
 20 nM (IC<sub>50</sub>)

## In Vitro

Cyclo(RGDyK) (c(RGDyK(SAA)) shows high affinity and selectivity for  $\alpha_V\beta_3$  over  $\alpha_V\beta_5$  ( $IC_{50}=4000$  nM) and  $\alpha_{IIb}\beta_3$  ( $IC_{50}=3000$  nM) [1].

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

## CUSTOMER VALIDATION

- Stem Cell Res Ther. 2022 Jul 18;13(1):327.
- Biochem Pharmacol. 2023 Sep 14;115808.
- Pharmaceuticals. 2021 Mar 14;14(3):260.

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## REFERENCES

[1]. Haubner R, et al. Glycosylated RGD-containing peptides: tracer for tumor targeting and angiogenesis imaging with improved biokinetics. J Nucl Med. 2001 Feb;42(2):326-36.

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

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