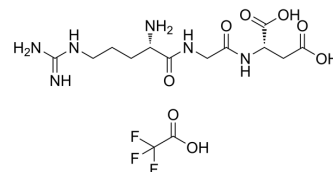


RGD Trifluoroacetate

Cat. No.:	HY-P0278A
CAS No.:	2378808-45-6
Molecular Formula:	C ₁₄ H ₂₃ F ₃ N ₆ O ₈
Molecular Weight:	460.36
Sequence:	Arg-Gly-Asp
Sequence Shortening:	RGD
Target:	Integrin
Pathway:	Cytoskeleton
Storage:	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

H₂O : ≥ 60 mg/mL (130.33 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	<div>Solvent</div> <div>Concentration</div>	Mass	1 mg	5 mg	10 mg
	1 mM		2.1722 mL	10.8611 mL	21.7221 mL
	5 mM		0.4344 mL	2.1722 mL	4.3444 mL
	10 mM		0.2172 mL	1.0861 mL	2.1722 mL
	Please refer to the solubility information to select the appropriate solvent.				

In Vivo

1. Add each solvent one by one: PBS

Solubility: 100 mg/mL (217.22 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description	RGD Trifluoroacetate is a tripeptide that effectively triggers cell adhesion, addresses certain cell lines and elicits specific cell responses; RGD Trifluoroacetate binds to integrins.
IC ₅₀ & Target	Integrin ^[1]
In Vitro	RGD Trifluoroacetate is the most effective and most often employed peptide sequence for stimulated cell adhesion on synthetic surfaces. There are 24 integrins binding to ECM molecules in a RGD dependent manner: α3β1, α5β1, α8β1, α11bβ3, αvβ1, αvβ3, αvβ5, αvβ6, αvβ8, and to some extent α2β1 and α4β1 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Chem Eng J. 5 February 2022, 135088.
- Cancer Sci. 2020 May 24;111(8):2803-2813.
- Colloid Polym Sci. 2023 Feb 27.
- Mater Sci Forum. 2019, 955: 68-73.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Hersel U, et al. RGD modified polymers: biomaterials for stimulated cell adhesion and beyond. Biomaterials. 2003 Nov;24(24):4385-415.

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

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