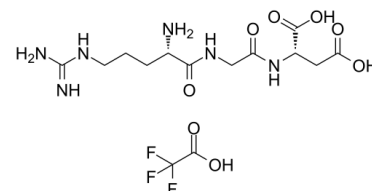


Data Sheet

Product Name:	RGD (Trifluoroacetate)
Cat. No.:	CS-0040825
CAS No.:	2378808-45-6
Molecular Formula:	C ₁₄ H ₂₃ F ₃ N ₆ O ₈
Molecular Weight:	460.36
Target:	Integrin
Pathway:	Cytoskeleton
Solubility:	H ₂ O : ≥ 60 mg/mL (130.33 mM)



BIOLOGICAL ACTIVITY:

RGD Trifluoroacetate is a tripeptide that effectively triggers cell adhesion, addresses certain cell lines and elicits specific cell responses; RGD Trifluoroacetate binds to **integrins**. IC₅₀ & 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].

References:

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

CAIndexNames:

Acetic acid, 2,2,2-trifluoro-, compd. with (L-arginylglycyl-yl)L-Aspartate (1:1)

SMILES:

O=C(O)C(F)(F)F.O=C(O)C[C@@H](C(O)=O)NC(CNC([C@H](CCCNC(N)=N)N)=O)=O

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

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