

iRGD peptide 1 TFA

Cat. No.:	HY-P0122B
Molecular Formula:	C ₃₇ H ₆₀ F ₃ N ₁₃ O ₁₆ S ₂
Molecular Weight:	1064.08
Sequence:	Cys-Arg-Gly-Asp-Lys-Gly-Pro-Asp-Cys
Sequence Shortening:	CRGDKGPDC
Target:	Others
Pathway:	Others
Storage:	Sealed storage, away from moisture
	Powder -80°C 2 years
	-20°C 1 year

CRGDKGPDC (TFA salt)

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

SOLVENT & SOLUBILITY

In Vitro

H₂O : ≥ 100 mg/mL (93.98 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		0.9398 mL	4.6989 mL	9.3978 mL
	5 mM		0.1880 mL	0.9398 mL	1.8796 mL
	10 mM		0.0940 mL	0.4699 mL	0.9398 mL

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

BIOLOGICAL ACTIVITY

Description

iRGD peptide 1 TFA is the prototypic tumor-specific tissue-penetrating peptide, which delivers agents deep into extravascular tumor tissue. iRGD peptide 1 TFA has anti-metastatic activity^[1].

In Vitro

iRGD peptide 1 (iRGD) inhibits migration of tumor cells and caused chemorepulsion in vitro in a CendR- and NRP-1-dependent manner. iRGD peptide 1 induces dramatic collapse of cellular processes and partial cell detachment, resulting in the repellent activity. These effects are prominently displayed when the cells are seeded on fibronectin, suggesting a role of CendR in functional regulation of integrins^[1].

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

In Vivo

iRGD peptide 1 (amino acid sequence: CRGDKGPDC; 4 μmol/kg; intravenous injection; every other day; for 21 days) potently inhibits spontaneous metastasis in mice^[1].

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

REFERENCES

[1]. Kazuki N Sugahara, et al. Tumor-penetrating iRGD Peptide Inhibits Metastasis. Mol Cancer Ther. 2015 Jan;14(1):120-8.

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

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