

G3-C12

Cat. No.:	HY-P1592
CAS No.:	848301-94-0
Molecular Formula:	C ₇₄ H ₁₁₅ N ₂₃ O ₂₃ S ₂
Molecular Weight:	1758.98
Sequence:	Ala-Asn-Thr-Pro-Cys-Gly-Pro-Tyr-Thr-His-Asp-Cys-Pro-Val-Lys-Arg
Sequence Shortening:	ANTPCGPYTHDCPVKR
Target:	Galectin
Pathway:	Immunology/Inflammation
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)

BIOLOGICAL ACTIVITY

Description	G3-C12 is a galectin-3 binding peptide, with K _d of 88 nM, and shows anticancer activity.
IC ₅₀ & Target	Galectin-3
In Vitro	G3-C12 is a galectin-3 binding peptide, with high affinity (K _d) of 88 nM, but shows no affinity for other galectin family members or to other lectins. G3-C12 bearing copolymers N-(2-hydroxypropyl)methacrylamide (HPMA) potently and selectively targets colorectal cancer (CRC) tumour cells over-expressing galectin-3 and displays superior targetability to galectin-3 compared to the galactose bearing copolymer ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kopansky E, et al. Peptide-directed HPMA copolymer-doxorubicin conjugates as targeted therapeutics for colorectal cancer. J Drug Target. 2011 Dec;19(10):933-43.

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

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