

## G3-C12 TFA

<b>Cat. No.:</b>	HY-P1592A		
<b>Molecular Formula:</b>	$C_{74}H_{115}N_{23}O_{23}S_2C_2HF_3O_2$		
<b>Molecular Weight:</b>	1873		
<b>Target:</b>	Galectin	ANTPCGPYTHDCPVKR (TFA salt)	
<b>Pathway:</b>	Immunology/Inflammation		
<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

<b>In Vitro</b>	H <sub>2</sub> O : ≥ 50 mg/mL (26.70 mM)			
	* "≥" means soluble, but saturation unknown.			
		<b>Solvent</b>	<b>Mass</b>	
		<b>Concentration</b>	<b>1 mg</b>	<b>5 mg</b>
			<b>10 mg</b>	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	0.5339 mL	2.6695 mL	5.3390 mL
	<b>5 mM</b>	0.1068 mL	0.5339 mL	1.0678 mL
	<b>10 mM</b>	0.0534 mL	0.2670 mL	0.5339 mL
	Please refer to the solubility information to select the appropriate solvent.			
<b>In Vivo</b>	1. Add each solvent one by one: PBS Solubility: 12.5 mg/mL (6.67 mM); Clear solution; Need ultrasonic			

### BIOLOGICAL ACTIVITY

<b>Description</b>	G3-C12 (TFA) is a galectin-3 binding peptide, with K <sub>d</sub> of 88 nM, and shows anticancer activity.
<b>IC<sub>50</sub> &amp; Target</b>	Galectin-3
<b>In Vitro</b>	G3-C12 (TFA) is a galectin-3 binding peptide, with high affinity (K <sub>d</sub> ) of 88 nM, but shows no affinity for other galectin family members or to other lectins. G3-C12 (TFA) 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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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

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