

## Pramlintide acetate

<b>Cat. No.:</b>	HY-P0058B	
<b>CAS No.:</b>	187887-46-3	
<b>Molecular Formula:</b>	C <sub>173</sub> H <sub>271</sub> N <sub>51</sub> O <sub>55</sub> S <sub>2</sub>	
<b>Molecular Weight:</b>	4009.44	KCNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY-NH2 (Disulfide bridge:Cys2-Cys7) (acetate salt)
<b>Sequence:</b>	Lys-Cys-Asn-Thr-Ala-Thr-Cys-Ala-Thr-Gln-Arg-Leu-Ala-Asn-Phe-Leu-Val-His-Ser-Ser-Asn-Asn-Phe-Gly-Pro-Ile-Leu-Pro-Pro-Thr-Asn-Val-Gly-Ser-Asn-Thr-Tyr-NH2 (Disulfide bridge:Cys2-Cys7)	
<b>Sequence Shortening:</b>	KCNTATCATQRLANFLVHSSNFGPILPPTNVGSNTY-NH2 (Disulfide bridge:Cys2-Cys7)	
<b>Target:</b>	Amylin Receptor	
<b>Pathway:</b>	GPCR/G Protein	
<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

#### In Vitro

H<sub>2</sub>O : 50 mg/mL (12.47 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	0.2494 mL	1.2471 mL	2.4941 mL
	5 mM	0.0499 mL	0.2494 mL	0.4988 mL
	10 mM	0.0249 mL	0.1247 mL	0.2494 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Pramlintide acetate is a polypeptide analogue of human amylin. Pramlintide acetate, an antidiabetic agent, is antineoplastic in colorectal cancer<sup>[1]</sup>.

#### In Vitro

Pramlintide inhibits the growth of HCT-116 and HT-29 in a dose-dependent manner, with higher efficacy against the latter (IC<sub>50</sub>s of 48.67 and 9.10 µg/mL, respectively)<sup>[1]</sup>.

The addition of 5, 10, and 20 µg/mL of Pramlintide to HCT-116 and HT-29 with 5-fluorouracil, Oxaliplatin, or Irinotecan induces the antiproliferative effect synergistically<sup>[1]</sup>.

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

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## REFERENCES

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[1]. Maha S Al-Keilani, et al. Pramlintide, an antidiabetic, is antineoplastic in colorectal cancer and synergizes with conventional chemotherapy. Clin Pharmacol. 2018 Mar 5;10:23-29.

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

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