

## Pramlintide

## Chemical Properties

CAS No. : 151126-32-8

Formula:

Molecular Weight:

KCNTATCATQRLANFLVHSSNFGPILPPTN-  
VGSNTY-NH<sub>2</sub> (Disulfide bridge:Cys<sub>2</sub>-Cys<sub>7</sub>)

Storage: Keep away from moisture  
Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Pramlintide, a polypeptide analog of human amylin, is an antidiabetic agent with antineoplastic properties in colorectal cancer.
Targets(IC50)	Amylin Receptor
In vitro	Pramlintide demonstrates dose-dependent inhibition of HCT-116 and HT-29 cell proliferation, showing greater effectiveness against HT-29 (IC 50 values are 48.67 and 9.10 µg/mL, respectively)[1]. Co-administration of Pramlintide at concentrations of 5, 10, and 20 µg/mL with 5-fluorouracil, Oxaliplatin, or Irinotecan enhances the antiproliferative effect synergistically in both HCT-116 and HT-29 cells[1].

## Reference

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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