

## Apoptin-derived peptide acetate

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

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	Apoptin-derived peptide acetate is an anticancer polypeptide with cytotoxic properties. It promotes apoptosis and necrosis in gastric cancer cells by modulating PI3K/AKT/ARNT signaling. Within cells, Apoptin-derived peptide acetate inhibits cancer cell invasion and migration and reduces the expression and phosphorylation of the PI3K subunit p85, thereby further inhibiting the PI3K/AKT pathway involved in gastric cancer progression.
Targets(IC50)	Apoptosis,Akt,Necroptosis,PI3K
In vitro	Apoptin-derived peptide acetate is effective in various capacities against cancer cells. At concentrations of 40-100 µg/mL over 24 hours, it reverses cisplatin resistance in SGC-7901/CDDP cells by downregulating ARNT through the inhibition of the PI3K/AKT signaling pathway. At 10-30 µg/mL for 24 hours, it inhibits the migration and invasion of SGC-7901, SGC-7901/CDDP, and MGC-803 cells. When used at concentrations of 30-60 µg/mL for 24 hours, it enhances the sensitivity of SGC-7901/CDDP cells to cisplatin. Additionally, at 10-20 µg/mL over the same duration, it increases the proportion of SGC-7901/CDDP cells in the G2/M phase and induces apoptosis. It also exhibits significant inhibitory effects on gastric cancer cells at concentrations ranging from 10-70 µg/mL, applied for 4 to 24 hours.

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