

# Product Data Sheet

## Silvestrol

<b>Cat. No.:</b>	A3818
<b>CAS No.:</b>	697235-38-4
<b>Formula:</b>	C <sub>34</sub> H <sub>38</sub> O <sub>13</sub>
<b>M.Wt:</b>	654.66
<b>Synonyms:</b>	(-)-Silvestrol
<b>Target:</b>	Tyrosine Kinase
<b>Pathway:</b>	FLT3
<b>Storage:</b>	Store at -20°C



## Solvent & Solubility

Soluble in DMSO

In Vitro

Preparing Stock Solutions	Solvent Concentration	Mass		
		1mg	5mg	10mg
	1 mM	1.5275 mL	7.6376 mL	15.2751 mL
	5 mM	0.3055 mL	1.5275 mL	3.0550 mL
	10 mM	0.1528 mL	0.7638 mL	1.5275 mL

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

## Biological Activity

Shortsummary

Antineoplastic

 IC<sub>50</sub> & Target

In Vitro

### Cell Viability Assay

Cell Line:	Human HCC cells
Preparation method:	This compound is soluble in DMSO. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below - 20 °C for several months.
Reacting conditions:	0 ~ 200 nM; 72 hrs
Applications:	Silvestrol potently inhibited human HCC cell growth in a

concentration-dependent manner, with an IC50 value of 23.9 nM in PLC/PRF-5 cells, 12.5 nM in Hep-3B cells, 14.6 nM in Huh-7 cells and 86 nM in HepG2 cells.

#### Animal experiment

Animal models: Nude mice bearing human HCC xenografts

Dosage form: 0.4 or 1 mg/kg; i.p.; 5 days/week, for 4 weeks

Applications: In nude mice bearing human HCC xenografts, a therapeutic response was observed in 36.4% of mice receiving 1 mg/kg Silvestrol and in 20% of mice receiving 0.4 mg/kg Silvestrol. At both doses, Silvestrol significantly increased the survival.

Other notes: Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

In Vivo

## Product Citations

See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

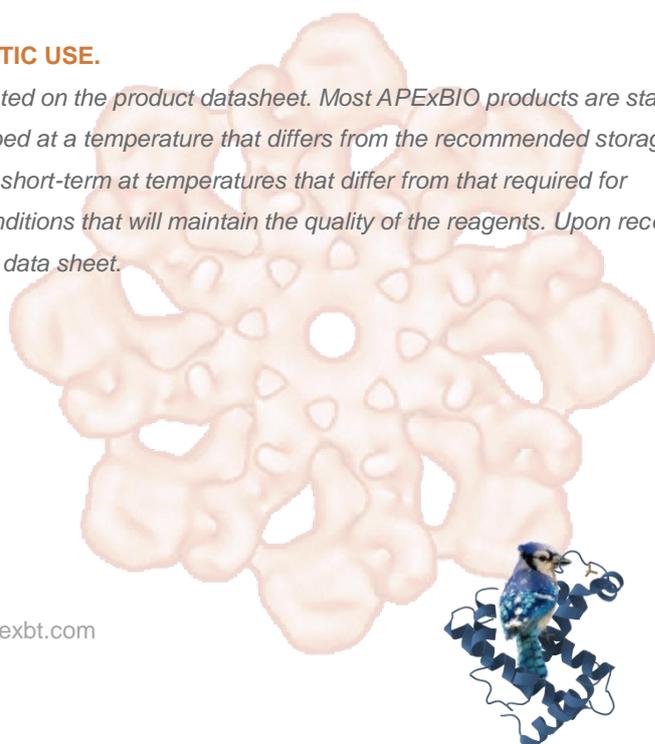
[1]. Kogure T, Kinghorn AD, Yan I, Bolon B, Lucas DM, Grever MR, Patel T. Therapeutic potential of the translation inhibitor silvestrol in hepatocellular cancer. PLoS One. 2013;8(9):e76136. doi: 10.1371/journal.pone.0076136.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

*Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.*



## **APEX BIO Technology**

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