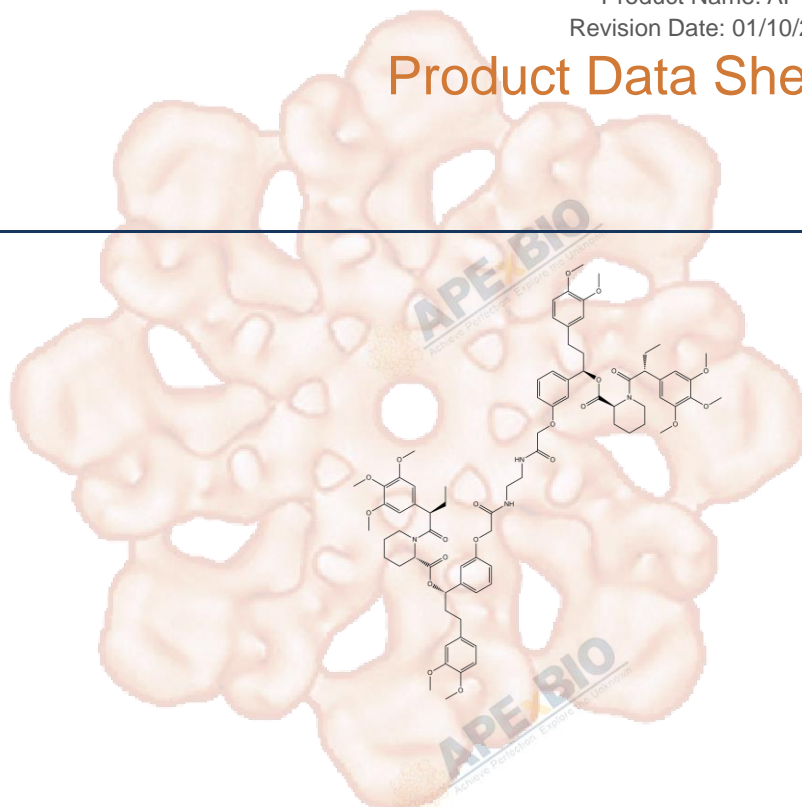


# Product Data Sheet

## AP1903

<b>Cat. No.:</b>	B4168
<b>CAS No.:</b>	195514-63-7
<b>Formula:</b>	C78H98N4O20
<b>M.Wt:</b>	1411.63
<b>Synonyms:</b>	
<b>Target:</b>	Others
<b>Pathway:</b>	Homodimerizers
<b>Storage:</b>	Store at -20°C



## Solvent & Solubility

≥23.53 mg/mL in DMSO; insoluble in H<sub>2</sub>O; ≥56.2 mg/mL in EtOH

In Vitro

Preparing Stock Solutions	Mass		1mg	5mg	10mg
	Solvent	Concentration			
		<b>1 mM</b>	0.7084 mL	3.5420 mL	7.0840 mL
		<b>5 mM</b>	0.1417 mL	0.7084 mL	1.4168 mL
		<b>10 mM</b>	0.0708 mL	0.3542 mL	0.7084 mL

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

## Biological Activity

Shortsummary

Homodimer binding to FKBP

IC<sub>50</sub> & Target

### Cell Viability Assay

In Vitro

Cell Line:	Cloned HT1080 cell lines (ATCC CCL-121)
Preparation method:	Limited solubility. 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:	37°C

	Applications:	The human fibrosarcoma line HT1080 was engineered to express stably a fusion protein comprising a myristoylation sequence, two copies of F36V-FKBP, and the human Fas intracellular domain. AP1903 elicits potent and dose-dependent apoptotic death of these engineered cells in culture, with an EC50 of $\approx 0.1$ nM.
In Vivo	<b>Animal experiment</b>	
	Animal models:	Male nu/nu mice
	Dosage form:	intravenous injection at 0.01-100 mg/kg
	Applications:	Male nu/nu mice were injected with HT1080 cell line expressing a Fas-F36V-FKBP construct that also constitutively secretes hGH. AP1903 exhibits a dose-dependent decrease in serum hGH levels, with a half-maximal effective dose of $0.4 \pm 0.1$ mg/kg.
	Preparation method:	Formulated in [50% N,N-dimethylacetamide/50% (90% PEG-400/10% Tween 80)] at 2 ml/kg
	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.

## Product Citations

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

## References

1. Clackson T, Yang W, Rozamus LW et al. Redesigning an FKBP-ligand interface to generate chemical dimerizers with novel specificity. Proc Natl Acad Sci U S A. 1998 Sep 1;95(18):10437-42

## 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 APExBIO 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.

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**APEx BIO Technology**

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