Print Date: Sep 29th 2022

Certificate of Analysis

www.tocris.com

Product Name: **AP 20187** **Catalog No.: 6297** **Batch No.: 2**

CAS Number: 195514-80-8

IUPAC Name: 2,2'-[[2-[(Dimethylamino)methyl]-1,3-propanediyl]bis[imino(2-oxo-2,1-ethanediyl)oxy-3,1-phenylene[(1*R*)-3-(3,4-dimethoxyphenyl)propylidene]]] bis[1-[(2*S*)-1-oxo-2-(3,4,5-trimethoxyphenyl)butyl]-2-piperidinecarboxylate]

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{82}H_{107}N_5O_{20}.½H_2O$

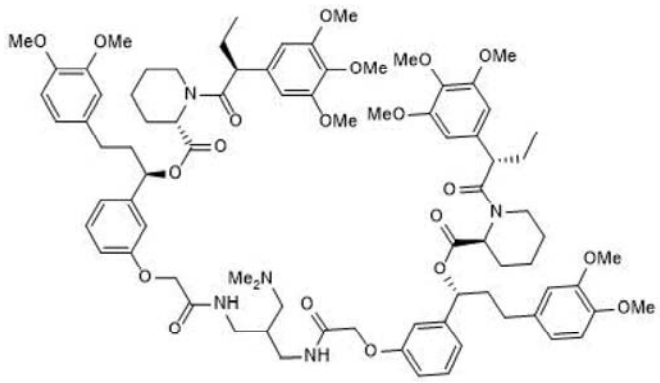
Batch Molecular Weight: 1491.78

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.02	7.3	4.69
Found	65.69	7.36	4.65

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Description:

AP 20187 is a chemical inducer of dimerization (CID) for use in FKBP fusion protein systems. Induces apoptosis in cells expressing fusion proteins consisting of $FKBP^{F36V}$ and the intracellular domain of the Fas receptor, Fas-associated death domain (FADD) or a caspase. Selective for $FKBP^{F36V}$-Fas fusion proteins over wild-type FKBP. Induces apoptosis of senescent cells expressing caspase-8-FKBP fusion proteins under the control of an Ink4a promoter. Active in vivo. For more information about how AP 20187 may be used, see our protocol. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

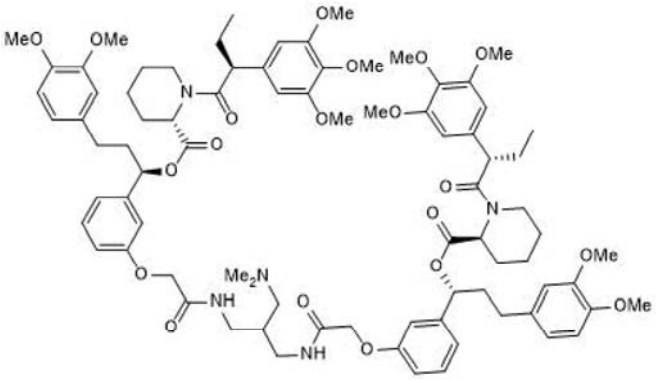
Batch Molecular Formula: $C_{82}H_{107}N_5O_{20}.½H_2O$

Batch Molecular Weight: 1491.78

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Jacobs *et al* (2018) StaPLs: versatile genetically encoded modules for engineering drug-inducible proteins. Nat.Methods ***15*** 523. PMID: 29967496.

Ono (2017) Exposure to sequestered self-antigens *in vivo* is not sufficient for the induction of autoimmune diabetes. PLoS One ***12*** e0173176. PMID: 28257518.

Baker *et al* (2016) Naturally occurring $p16^{Ink4a}$-positive cells shorten healthy lifespan. Nature ***530*** 184. PMID: 26840489.