

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: C₈₂H₁₀₇N₅O₂₀·½H₂O

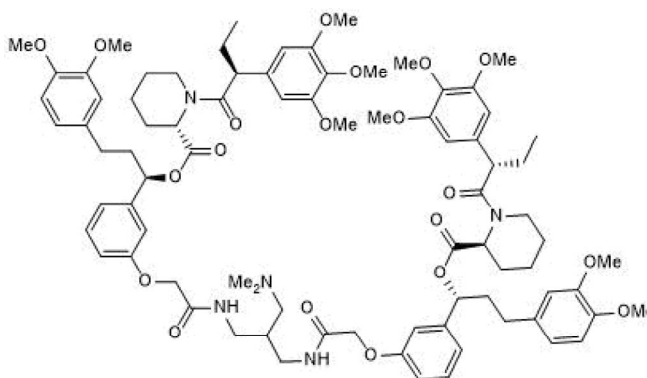
Batch Molecular Weight: 1491.78

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

¹H 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

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956

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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:

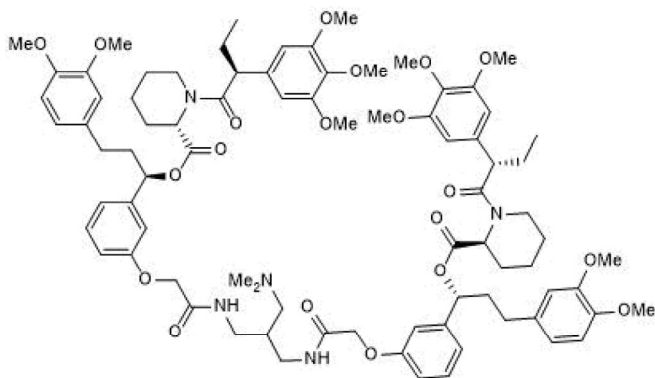
Batch Molecular Formula: C₈₂H₁₀₇N₅O₂₀·½H₂O

Batch Molecular Weight: 1491.78

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



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.

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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.

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