Print Date: Sep 4th 2020

Certificate of Analysis

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Product Name: **AP 1903** **Catalog No.: 6130** **Batch No.: 1**

CAS Number: 195514-63-7

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{78}H_{98}N_4O_{20}.H_2O$

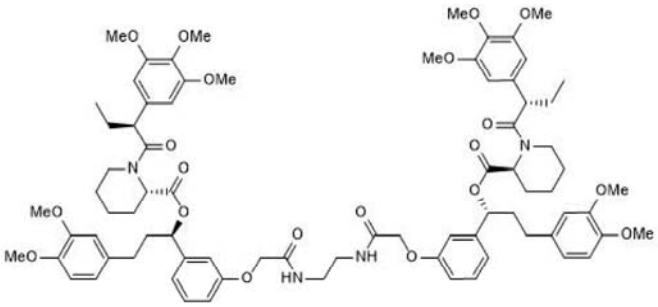
Batch Molecular Weight: 1429.67

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	65.53	7.05	3.92
Found	65.09	7.03	4

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Product Information

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Description:

Chemical protein dimerizer for use in FKBP fusion protein systems. Induces apoptosis in cells expressing a fusion protein consisting of $FKBP^{F36V}$ and intracellular domain of Fas receptor with high potency (EC_{50} = 0.1 nM). Exhibits >50-fold selectivity for $FKBP^{F36V}$-Fas fusion protein over wild-type FKBP. Also induces apoptosis in cells expressing Cas9-FK506 fusion proteins, in inducible caspase 9 (iCas9) suicide gene system. Active in vivo.

Physical and Chemical Properties:

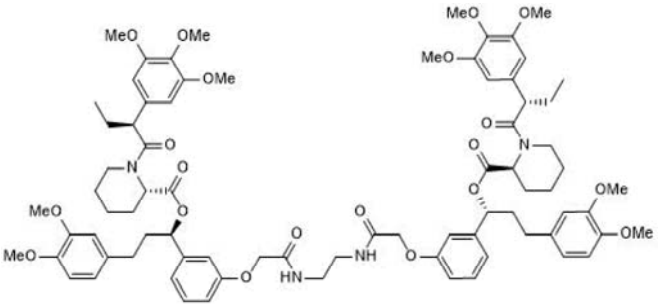
Batch Molecular Formula: $C_{78}H_{98}N_4O_{20}.H_2O$

Batch Molecular Weight: 1429.67

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:

Gargett & Brown (2014) The inducible caspase-9 suicide gene system as a "safety switch" to limit on-target, off-tumor toxicities of chimeric antigen receptor T cells. Front.Pharmacol. ***5*** 235. PMID: 25389405.

Clackson *et al* (1998) Redesigning an FKBP-ligand interface to generate chemical dimerizers with novel specificity. Proc.Natl.Acad.Sci.USA. ***95*** 10437. PMID: 9724721.