bio-techne
TOCRIS

Print Date: Apr 5th 2024

Certificate of Analysis

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Product Name: **AP 1867** **Catalog No.: 6207** **Batch No.: 1**

CAS Number: 195514-23-9

IUPAC Name: (1*R*)-1-[3-(Carboxymethoxy)phenyl]-3-(3,4-dimethoxyphenyl)propyl (2*S*)-1-[(2*S*)-1-oxo-2-(3,4,5-trimethoxyphenyl) butyl]-2-piperidinecarboxylate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{38}H_{47}NO_{11}$.

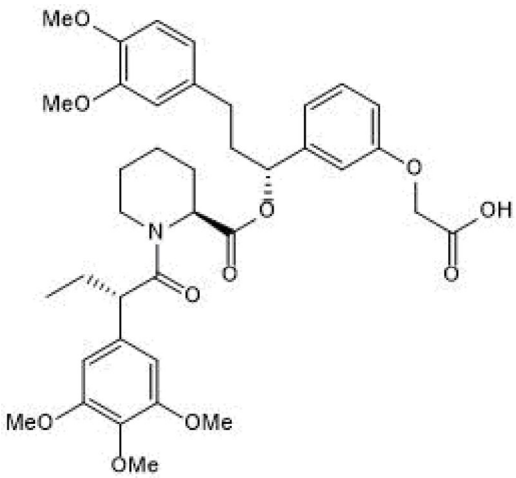
Batch Molecular Weight: 693.79

Physical Appearance: White solid

Solubility: ethanol to 100 mM
DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.79	6.83	2.02
Found	65.18	6.72	2

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 1867 is a selective binding ligand for the single point mutant of $FKBP12^{F36V}$ (IC_{50} = 1.8 nM). Functionalized with a carboxylic acid group at the meta-position to enable onward chemistry. The position of the carboxylic acid group represents an 'exit vector' allowing modification without interfering with the compound's binding ability.

Physical and Chemical Properties:

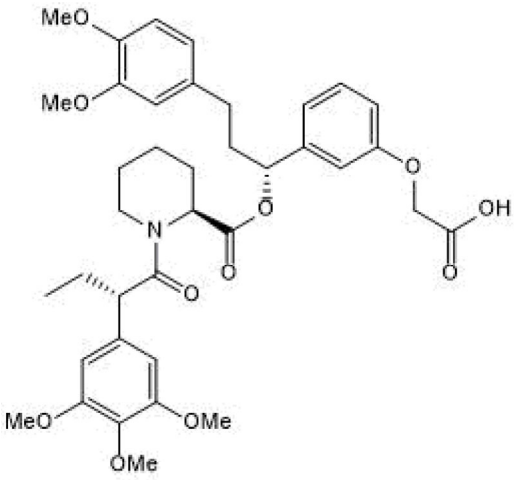
Batch Molecular Formula: $C_{38}H_{47}NO_{11}$.

Batch Molecular Weight: 693.79

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

ethanol to 100 mM
DMSO 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.

References:

Koide *et al* (2001) A synthetic library of cell-permeable molecules. J.Am.Chem.Soc. ***123*** 398. PMID: 11456541.

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