

Product Name: Y-29794 oxalate

Catalog No.: 1634

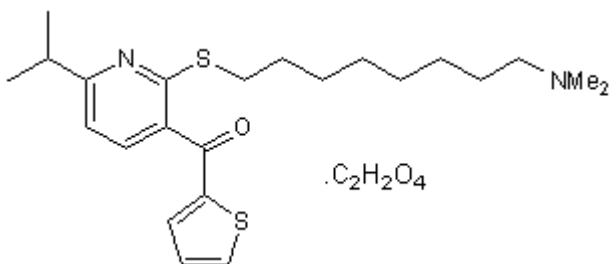
Batch No.: 1

CAS Number: 146794-84-5

IUPAC Name: [2-[[8-(Dimethylamino)octyl]thio]-6-(1-methylethyl)-3-pyridinyl]-2-thienylmethanone oxalate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{23}H_{34}N_2OS_2 \cdot C_2H_2O_4$
Batch Molecular Weight: 508.69
Physical Appearance: White solid
Solubility: ethanol to 15 mM with gentle warming
DMSO to 15 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: $R_f = 0.63$ (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
Melting Point: At 128°C
HPLC: Shows 96.8% purity
¹H NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.03	7.13	5.5
Found	59.19	7.29	5.42

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

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Description:

Inhibitor of prolyl endopeptidase, a serine peptidase that may be implicated in the biosynthesis of amyloid β -peptide. Potently inhibits rat brain prolyl endopeptidase ($K_i = 0.95$ nM) in vitro, and prevents amyloid β -peptide deposition in vivo. Orally active and brain penetrant.

Physical and Chemical Properties:

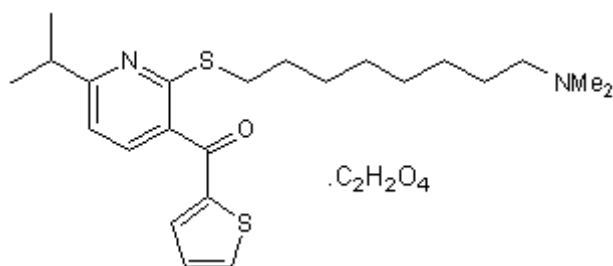
Batch Molecular Formula: $C_{23}H_{34}N_2OS_2 \cdot C_2H_2O_4$

Batch Molecular Weight: 508.69

Physical Appearance: White solid

Minimum Purity: >96%

Batch Molecular Structure:



Storage: Store at $-20^{\circ}C$

Solubility & Usage Info:

ethanol to 15 mM with gentle warming
DMSO to 15 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 $45-60^{\circ}C$ 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 $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Kato et al (1997) Prevention of amyloid-like deposition by a selective prolyl endopeptidase inhibitor, Y-29794, in senescence-accelerated mouse. *J.Pharmacol.Exp.Ther.* **283** 328. PMID: 9336340.

Nakajima et al (1992) Y-29794 - a non-peptide prolyl endopeptidase inhibitor that can penetrate into the brain. *Neurosci.Lett.* **141** 156. PMID: 1436628.

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