

Certificate of Analysis

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Product Name: K-252c

Catalog No.: 2287

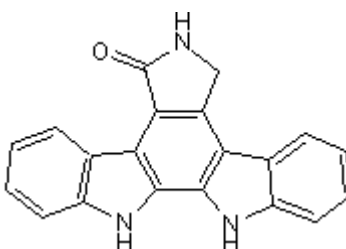
Batch No.: 1

CAS Number: 85753-43-1

IUPAC Name: 6,7,12,13-Tetrahydro-5H-indolo[2,3-a]pyrrolo[3,4-c]carbazol-5-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₁₃N₃O
Batch Molecular Weight: 311.34
Physical Appearance: Yellow solid
Solubility: DMSO to 25 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >99.1% purity
Mass Spectrum: Consistent with structure

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

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Description:

Inhibitor of protein kinase C ($IC_{50} = 2.45 \mu M$) that displays ~ 10-fold selectivity over protein kinase A ($IC_{50} = 25.7 \mu M$). Also inhibits β -lactamase, malate dehydrogenase and chymotrypsin (IC_{50} values are 8, 8 and 10 μM respectively). Exhibits antiviral activity against GCV-sensitive and -resistant strains of human cytomegalovirus (HCMV) (IC_{50} values range from 0.13 - 0.32 μM). Shows no activity against herpes simplex virus (HSV).

Physical and Chemical Properties:

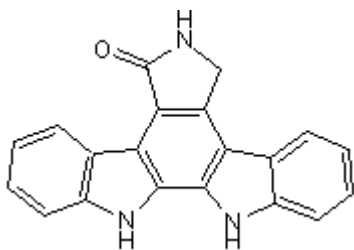
Batch Molecular Formula: $C_{20}H_{13}N_3O$

Batch Molecular Weight: 311.34

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Fabre et al (1993) Protein kinase C inhibitors; structure-activity relationships in K252c-related compounds. *Bioorg.Med.Chem.* **1** 193. PMID: 8081852.

Zimmermann et al (2000) Indolocarbazoles exhibit strong antiviral activity against human cytomegalovirus and are potent inhibitors of the pUL97 protein kinase. *Antiviral Res.* **48** 49. PMID: 11080540.

McGovern and Shoichet (2003) Kinase inhibitors: not just for kinases anymore. *J.Med.Chem.* **46** 1478. PMID: 12672248.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 25 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.

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