

Product Name: **KT 5720**

Catalog No.: **1288**

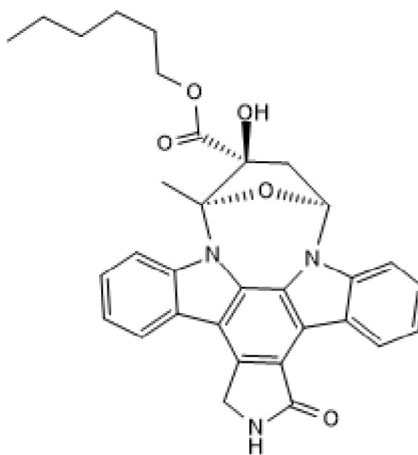
Batch No.: **18**

CAS Number: 108068-98-0

IUPAC Name: (9*R*,10*S*,12*S*)-2,3,9,10,11,12-Hexahydro-10-hydroxy-9-methyl-1-oxo-9,12-epoxy-1*H*-diindolo[1,2,3-*fg*:3',2',1'-*k'*]pyrrolo[3,4-*l*][1,6]benzodiazocine-10-carboxylic acid, hexyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₃₂ H ₃₁ N ₃ O ₅ .
Batch Molecular Weight:	537.61
Physical Appearance:	Off White solid
Solubility:	DMSO to 50 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 97.6% purity
¹ H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

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

Product Name: KT 5720

Catalog No.: 1288

18

CAS Number: 108068-98-0

IUPAC Name: (9R,10S,12S)-2,3,9,10,11,12-Hexahydro-10-hydroxy-9-methyl-1-oxo-9,12-epoxy-1*H*-diindolo[1,2,3-*fg*:3',2',1'-*k'*]pyrrolo[3,4-*l*][1,6]benzodiazocine-10-carboxylic acid, hexyl ester

Description:

KT 5720 is a potent, selective inhibitor of protein kinase A ($K_i = 60$ nM). Has no effect on PKG or PKC ($K_i > 2$ μ M). Reversibly arrests human skin fibroblasts in the G₁ phase.

Physical and Chemical Properties:

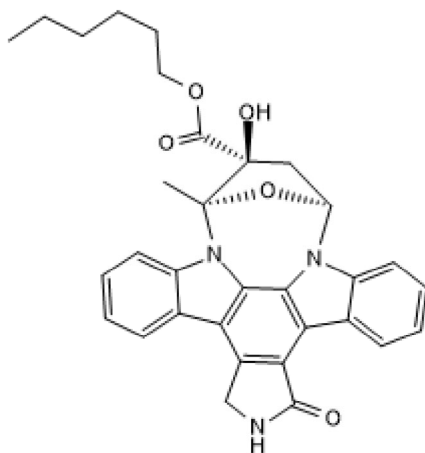
Batch Molecular Formula: C₃₂H₃₁N₃O₅.

Batch Molecular Weight: 537.61

Physical Appearance: Off White solid

Minimum Purity: $\geq 97\%$

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 50 mM

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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:

Cabell et al (1993) Effects of selective inhibition of protein kinase C, cyclic AMP-dependent protein kinase, and Ca(2+)-calmodulin-dependent protein kinase on neurite development in cultured rat hippocampal neurons. *Int.J.Dev. Neurosci.* **11** 357. PMID: 7689287.

Gadbois et al (1992) Multiple kinase arrest points in the G₁ phase of nontransformed mammalian cells are absent in transformed cells. *Proc.Natl.Acad.Sci.U.S.A.* **89** 8626. PMID: 1528872.

Kase et al (1987) K-252 compounds, novel and potent inhibitors of protein kinase C and cyclic nucleotide-dependent protein kinases. *Biochem.Biophys.Res.Commun.* **142** 436. PMID: 3028414.

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