


Product datasheet

KT5720, protein kinase A inhibitor ab141818

[1 References](#) [2 Images](#)

Overview

Product name	KT5720, protein kinase A inhibitor
Description	Potent, selective protein kinase A inhibitor
Biological description	Potent, selective protein kinase A ($K_i = 60$ nM) inhibitor . Reversibly arrests human skin fibroblasts in the G1 phase. Cell permeable.
Purity	> 98%
CAS Number	108068-98-0
Chemical structure	

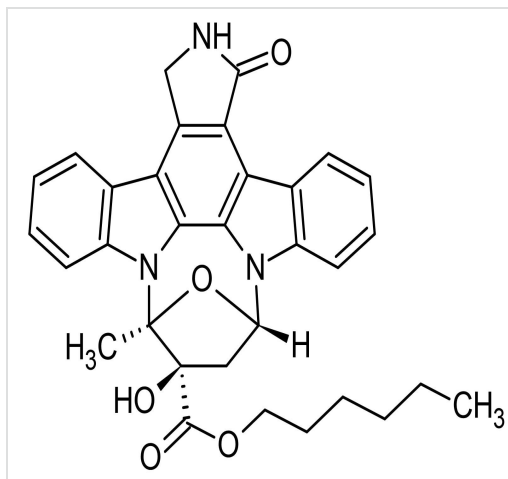
Properties

Chemical name	(9 <i>R</i> ,10 <i>S</i> ,12 <i>S</i>)-2,3,9,10,11,12-Hexahydro-10-hydroxy-9-methyl-1-oxo-9,12-epoxy-1 <i>H</i> -diindolo[1,2,3- <i>fg</i> :3',2',1'- <i>kl</i>]pyrrolo[3,4- <i>l</i>][1,6]benzodiazocine-10-carboxylic acid hexyl ester
Molecular weight	537.61
Molecular formula	$C_{32}H_{31}N_3O_5$
PubChem identifier	454202
Storage instructions	Store at -20°C. It is important to note that this product is reported to be light sensitive. Store In the Dark. Store under desiccating conditions.
Solubility overview	Soluble in DMSO to 1 mg/ml
Handling	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour. Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

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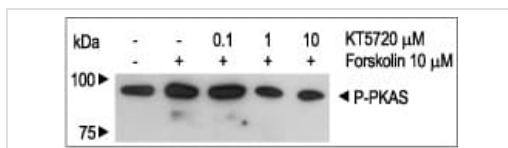
Source Synthetic

Images



Chemical Structure - KT5720, protein kinase A inhibitor (ab141818)

2D chemical structure image of ab141818, KT5720, protein kinase A inhibitor



Functional Studies - KT5720, protein kinase A inhibitor (ab141818)

KT5720 inhibits PKAS phosphorylation via PKA.

NIH/C6 cells were preincubated for 45 min with different concentrations of KT5720 (ab141818) and then stimulated with 10 μ M Forskolin ([ab120058](#)) for 20 min. Cell proteins were resolved by SDS-PAGE and probed with antiphospho-(Ser/Thr) PKAS (PKA substrate).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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