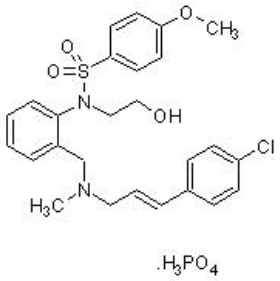
abcam

Product datasheet

KN-93 (water soluble), CaMK II inhibitor ab120980

3 References 2 Images

Overview

Product name	KN-93 (water soluble), CaMK II inhibitor
Description	Potent, specific CaMK II inhibitor
Purity	> 99%
CAS Number	1188890-41-6
Chemical structure	

Properties

Chemical name	*N*-[2-[[[(2*E*)-3-(4-Chlorophenyl)-2-propen-1-yl]methylamino]methyl]phenyl]-*N*-(2-hydroxyethyl)-4-methoxybenzenesulfonamide phosphate
Molecular weight	599.03
Molecular formula	$C_{26}H_{29}ClN_2O_4S.H_3PO_4$
PubChem identifier	16760530
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 water to 100 mM and in DMSO to 100 mM
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.
SMILES	Clc3ccc(/C=C/CN(C)Cc2ccccc2N(CCO)S(=O)(=O)c1ccc(OC)cc1)cc3.O=P(O)(O)O

Source Synthetic

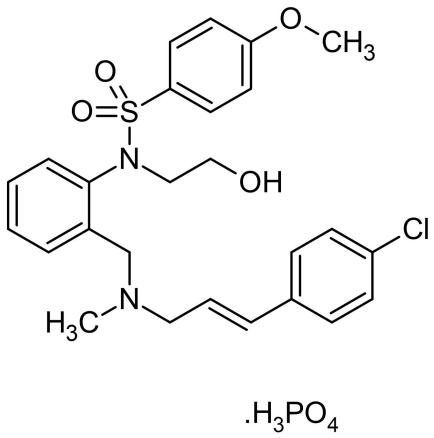
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab120980 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

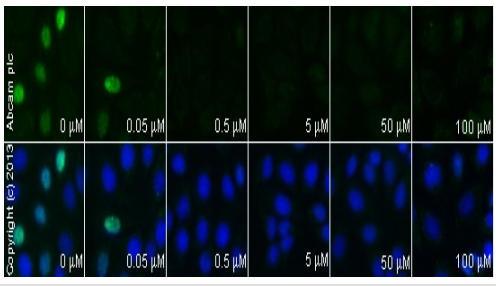
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



Chemical Structure - KN-93 (water soluble), CaMK II inhibitor (ab120980)

2D chemical structure image of ab120980, KN-93 (water soluble), CaMK II inhibitor



Immunocytochemistry/ Immunofluorescence - KN-93 (water soluble), CaMK II inhibitor (ab120980)

ab40754 staining cyclin D1 in MCF7 cells treated with KN-93 (water soluble) (ab120980), by ICC/IF. Decrease in cyclin D1 expression correlates with increased concentration of KN-93 (water soluble), as described in literature.

The cells were incubated at 37°C for 24 hours in media containing different concentrations of ab120980 (KN-93 (water soluble)) in DMSO, fixed with 100% methanol for 5 minutes at -20°C and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with **ab40754** (1/100 dilution) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-rabbit polyclonal antibody (**ab96899**) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.

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

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