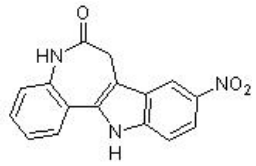
abcam

Product datasheet

Alsterpaullone, cyclin-dependent kinase (CDK) and GSK-3beta inhibitor ab141070

2 Images

Overview

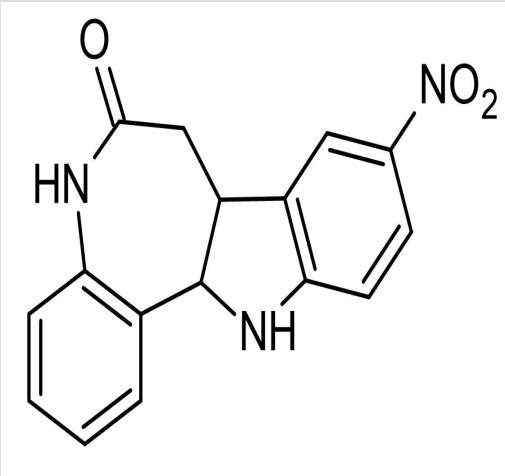
Product name	Alsterpaullone, cyclin-dependent kinase (CDK) and GSK-3beta inhibitor
Description	Potent cyclin-dependent kinase (CDK) and GSK-3β inhibitor
Purity	> 96%
CAS Number	237430-03-4
Chemical structure	

Properties

Chemical name	7,12-Dihydro-9-nitroindolo[3,2-*d*][1]benzazepin-6(5*H*)-one
Molecular weight	293.28
Molecular formula	$C_{16}H_{11}N_3O_3$
PubChem identifier	5005498
Storage instructions	Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.
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	[O-][N+](=O)c4cc3c(NC1C3CC(=O)Nc2ccccc12)cc4
Source	Synthetic

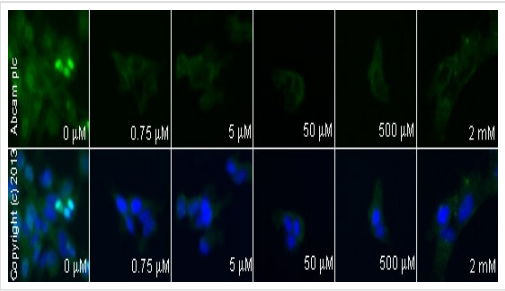
Images

Images



Chemical Structure - Alsterpaullone, cyclin-dependent kinase (CDK) and GSK-3beta inhibitor (ab141070)

2D chemical structure image of ab141070, Alsterpaullone, cyclin-dependent kinase (CDK) and GSK-3beta inhibitor



Immunocytochemistry/ Immunofluorescence - Alsterpaullone, cyclin-dependent kinase (CDK) and GSK-3beta inhibitor (ab141070)

ab32505 staining AKT1 in SK-N-SH cells treated with alsterpaullone (ab141070), by ICC/IF. Decrease of AKT1 expression correlates with increased concentration of alsterpaullone, as described in literature.
The cells were incubated at 37°C for 6h in media containing different concentrations of ab141070 (alsterpaullone) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature 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 **ab32505** (1/200 dilution was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 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.

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