

Product datasheet

Nocodazole, Microtubule inhibitor ab120630

5 References 2 Images

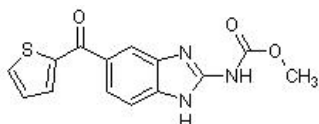
Overview

Product name	Nocodazole, Microtubule inhibitor
Description	Microtubule inhibitor
Biological description	Microtubule inhibitor. Rapidly depolymerises microtubules <i>in vivo</i> and inhibits tubulin polymerisation <i>in vitro</i> . Inhibits mitosis. Also reduces stem cell pluripotency factors Oct 4 and Nanog.
Purity	> 98%

Properties

Chemical name	Methyl [5-(2-thienylcarbonyl)-1H-benzimidazol-2-yl]carbamate
Molecular weight	301.32

Chemical structure



Molecular formula	C ₁₄ H ₁₁ N ₃ O ₃ S
CAS Number	31430-18-9
PubChem identifier	4122
Storage instructions	Store at +4°C. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 50 mM

Handling

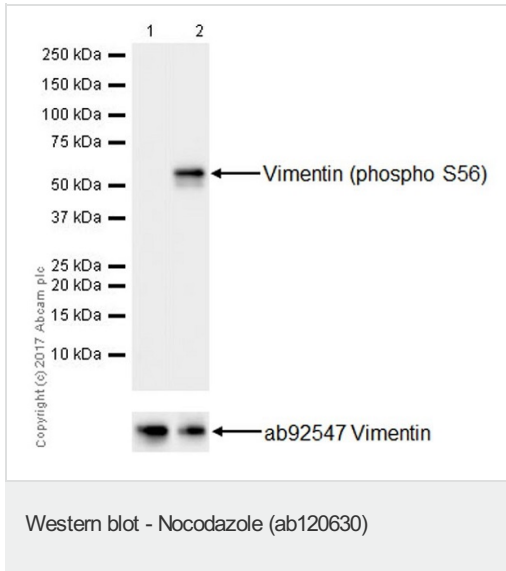
Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening 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	COC(=O)NC1=NC2=C(N1)C=C(C=C2)C(=O)C3=CC=CS3
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Source	Synthetic
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Images



All lanes : Anti-Vimentin (phospho S56) antibody [EPR21084] (ab217673) at 1/1000 dilution

Lane 1 : Untreated HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 2 : HeLa (human epithelial cell line from cervix adenocarcinoma) treated with 100 ng/ml nocodazole (ab120630) for 18 hours, whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

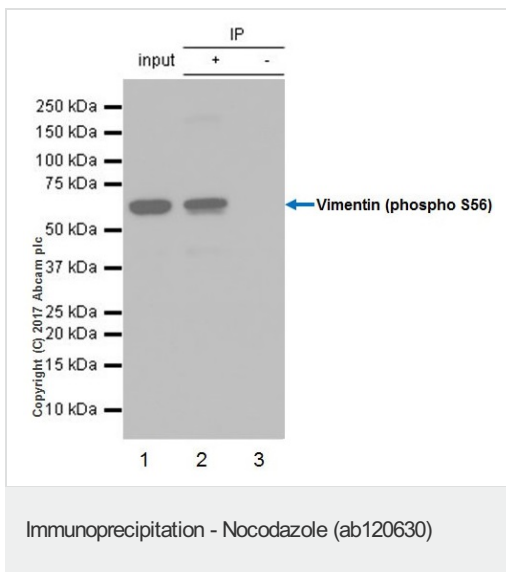
Developed using the ECL technique.

Observed band size: 57 kDa

[why is the actual band size different from the predicted?](#)

Exposure time: 23 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.



Vimentin (phospho S56) was immunoprecipitated from 0.35 mg of HeLa (human epithelial cell line from cervix adenocarcinoma) treated with 100 ng/ml nocodazole (ab120630) for 18 hours, whole cell lysate with ab217673 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab217673 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used as secondary antibody at 1/10000 dilution.

Lane 1: HeLa treated with 100 ng/ml nocodazole (ab120630) for 18 hours, whole cell lysate 10 µg (Input).

Lane 2: ab217673 IP in HeLa treated with 100 ng/ml nocodazole (ab120630) for 18 hours, whole cell lysate.

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab217673 in HeLa treated with 100 ng/ml nocodazole (ab120630) for 18 hours, whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

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