

## Product datasheet

# Nocodazole ab120630

4 References 2 Images

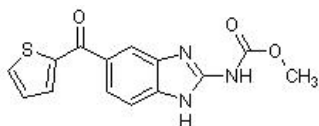
### Overview

<b>Product name</b>	Nocodazole
<b>Description</b>	Microtubule inhibitor
<b>Biological description</b>	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.
<b>Purity</b>	> 98%

### Properties

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

#### Chemical structure



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

**Handling**

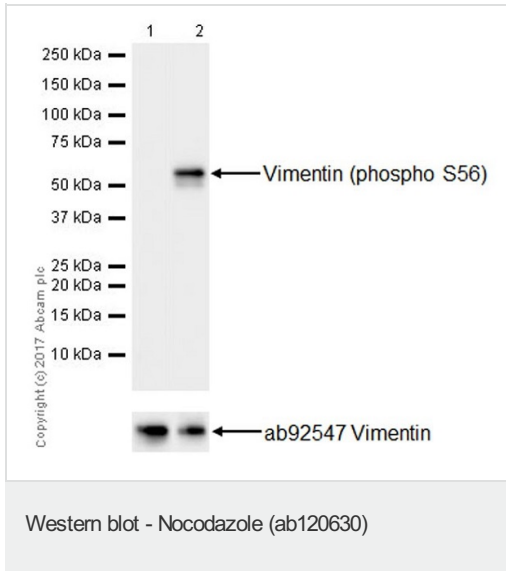
Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening 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

**Source** Synthetic

### 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

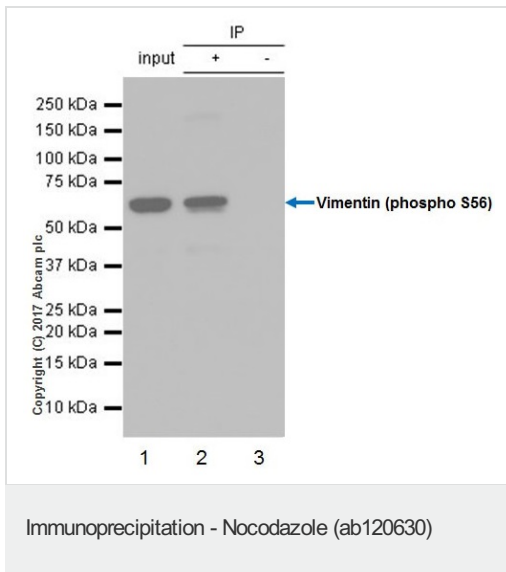
Developed using the ECL technique.

**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.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE, NOT FOR USE IN HUMANS"

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