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## DATASHEET

Nocodazole

### Product overview

<b>Name</b>	Nocodazole
<b>Cat No</b>	HB3999
<b>Biological action</b>	Inhibitor
<b>Purity</b>	>98%
<b>Description</b>	Mitosis inhibitor, widely used as a cell cycle synchronizing agent. Enhances HDR efficiency and increases Cas9-mediated gene editing frequencies.

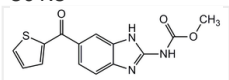
### Biological Data

<b>Biological description</b>	Mitosis inhibitor which induces microtubule depolymerization <i>in vivo</i> and inhibits tubulin polymerization. Arrest cell cycle at the G2/M phase. Widely used as a cell cycle synchronizing agent. Enhances homology-directed repair (HDR) efficiency (depending on cell cycle phase) and increases Cas9-mediated gene editing frequencies.
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### Solubility & Handling

<b>Storage instructions</b>	+4 °C
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Molecular Weight</b>	301.3
<b>Chemical structure</b>	
<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>SMILES</b>	<chem>COC(=O)NC1=NC2=CC(=CC=C2N1)C(=O)C1=CC=CS1</chem>
<b>InChIKey</b>	KYRVNWMVYQXFEU-UHFFFAOYSA-N
<b>Appearance</b>	White to off-white solid

### References

**Nanomolar concentrations of nocodazole alter microtubule dynamic instability in vivo and in vitro.**

Vasquez et al (1997) Mol Biol Cell 8(6):

**PubMedID** [9201709](#)

**Microtubule disruption inhibits autophagosome-lysosome fusion: implications for studying the roles of aggresomes in polyglutamine diseases.**

Webb et al (2004) Int J Biochem Cell Biol 36(12)

Enhanced homology-directed human genome engineering by controlled timing of CRISPR/Cas9 delivery.

Lin et al (25497837) Elife 15(3)

