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DATASHEET

Nocodazole

Product overview

NameNocodazoleCat NoHB3999Biological actionInhibitorPurity>98%

Description Mitosis inhibitor, widely used as a cell cycle synchronizing agent. Enhances HDR efficiency and

increases Cas9-mediated gene editing frequencies.

Biological Data

Biological description Mitosis inhibitor which induces microtubule depolymerization in vivo and inhibits tubulin

polymerziation. 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.

Solubility & Handling

Storage instructions

Important

+4°C

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use.

Chemical Data

Molecular Weight

Chemical structure

301.3

SMILES COC(=O)NC1=NC2=CC(=CC=C2N1)C(=O)C1=CC=CS1

InChiKey KYRVNWMVYQXFEU-UHFFFAOYSA-N

Appearance 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)

PubMedID 15325591

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

Lin et al (25497837) Elife 15(3)

PubMedID 25497837