



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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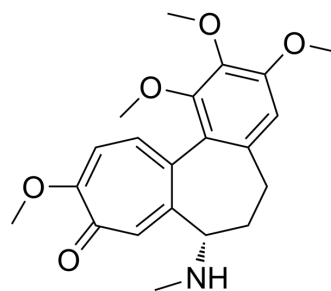
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## Colcemid (Standard)

Cat. No.:	HY-N0282R
CAS No.:	477-30-5
Molecular Formula:	C <sub>21</sub> H <sub>25</sub> NO <sub>5</sub>
Molecular Weight:	371.43
Target:	Microtubule/Tubulin; Apoptosis
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Colcemid (Standard) is the analytical standard of Colcemid. This product is intended for research and analytical applications. Colcemid (Demecolcine) is a potent mitotic inhibitor with an IC<sub>50</sub> value of 2.4 μM for inhibition of tubulin polymerization. Colcemid (Demecolcine) can interact with tubulin dimers to induce anti-mitotic action and inhibit microtubule growth. Colcemid (Demecolcine) can be used for inflammatory disorders and cancer research<sup>[1][2]</sup>.

### REFERENCES

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- [2]. Ashley M Rozario, et al. Ultra-Low Colcemid Doses Induce Microtubule Dysfunction as Revealed by Super-Resolution Microscopy. *BioRxiv*.
- [3]. Nett RS, et al. Discovery and engineering of colchicine alkaloid biosynthesis. *Nature*. 2020 Aug;584(7819):148-153. doi: 10.1038/s41586-020-2546-8. Epub 2020 Jul 22. Erratum in: *Nature*. 2020 Jul 30.
- [4]. Muzaffar A, et al. Antitubulin effects of derivatives of 3-demethylthiocolchicine, methylthio ethers of natural colchicinoids, and thioketones derived from thiocolchicine. Comparison with colchicinoids. *J Med Chem*. 1990 Feb;33(2):567-71.
- [5]. Riskey MS, et al. An improved method for cytogenetic analysis of meiotic aneuploidy in rodent and frog spermatocytes. *Mutat Res*. 1990 Dec;234(6):361-8.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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