



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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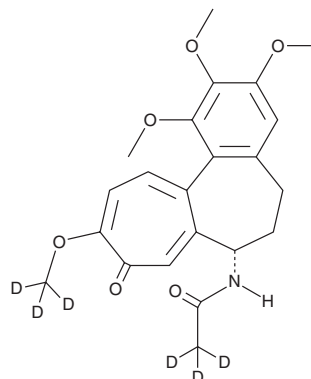
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# PRODUCT INFORMATION



## Colchicine-d<sub>6</sub> Item No. 25280

**CAS Registry No.:** 1217651-73-4  
**Formal Name:** (S)-N-(1,2,3-trimethoxy-10-(methoxy-d<sub>3</sub>)-9-oxo-5,6,7,9-tetrahydrobenzo[a]heptalen-7-yl)acetamide-2,2,2-d<sub>3</sub>  
**MF:** C<sub>22</sub>H<sub>19</sub>D<sub>6</sub>NO<sub>6</sub>  
**FW:** 405.5  
**Chemical Purity:** ≥98% (Colchicine)  
**Deuterium Incorporation:** ≥99% deuterated forms (d<sub>1</sub>-d<sub>6</sub>); ≤1% d<sub>0</sub>  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:** ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Colchicine-d<sub>6</sub> is intended for use as an internal standard for the quantification of colchicine (Item No. 9000760) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

Colchicine-d<sub>6</sub> is supplied as a solid. A stock solution may be made by dissolving the colchicine-d<sub>6</sub> in the solvent of choice, which should be purged with an inert gas. Colchicine-d<sub>6</sub> is slightly soluble in chloroform and methanol.

### Description

Colchicine is an inhibitor of microtubule polymerization (IC<sub>50</sub> = 3.2 μM) that binds to tubulin, which disrupts spindle formation during mitosis.<sup>1</sup> It inhibits growth of MCF-7 human breast carcinoma cells with an IC<sub>50</sub> value of 13 nM.<sup>1</sup> Colchicine has anti-inflammatory activity, inhibiting neutrophil motility and activity when used at a dose of 5 μmol/kg in a mouse model of gout and preventing the deposition of uric acid.<sup>2,3</sup>

### References

1. Martino, G.D., Regina, G.L., Coluccia, A., *et al.* Arylthioindoles, potent inhibitors of tubulin polymerization. *J. Med. Chem.* **47**(25), 6120-6123 (2004).
2. McCarty, D.J. Urate crystals, inflammation, and colchicine. *Arthritis Rheum.* **58**(2), S20-S24 (2008).
3. Chia, E.W., Grainger, R., and Harper, J.L. Colchicine suppresses neutrophil superoxide production in a murine model of gouty arthritis: A rationale for use of low-dose colchicine. *Br. J. Pharmacol.* **153**(6), 1288-95 (2008).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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