

## Product Datasheet

### Thiocolchicine (orb1303136)

<b>Catalog Number</b>	orb1303136
<b>Category</b>	Small Molecules
<b>Description</b>	Thiocolchicine is a potent tubulin polymerization inhibitor (IC <sub>50</sub> =2.5 μM, K <sub>i</sub> =0.7 μM) that induces apoptotic cell death. It serves as a cytotoxic payload in Antibody-Drug Conjugate (ADC) development and is used in cancer research for both in vitro mechanistic studies and in vivo efficacy models.
<b>Target</b>	Apoptosis, Microtubule Associated
<b>Purity</b>	98.19% (May vary between batches)
<b>MW</b>	415.5
<b>Target Areas</b>	Apoptosis Microtubule Associated
<b>Solubility (25°C)</b>	10% DMSO+40% PEG300+5% Tween 80+45% Saline:3.3 mg/mL (7.94 mM);DMSO:95 mg/mL (228.64 mM)
<b>CAS Number</b>	2730-71-4
<b>Formula</b>	C <sub>22</sub> H <sub>25</sub> NO <sub>5</sub> S
<b>SMILES</b>	COc1cc2CC[C@H](NC(C)=O)c3cc(=O)c(SC)ccc3-c2c(OC)c1OC
<b>Storage</b>	-20°C
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.

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