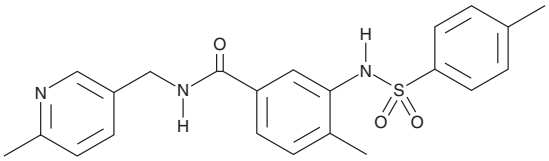
# PRODUCT INFORMATION

## Tubulin Inhibitor 11

*Item No. 38396*

| | |
|---|---|
| **CAS Registry No.:** | 2366260-33-3 |
| **Formal Name:** | 4-methyl-3-[[(4-methylphenyl) sulfonyl]amino]-N-[(6-methyl-3-pyridinyl)methyl]-benzamide |
| **MF:** | $C_{22}H_{23}N_3O_3S$ |
| **FW:** | 409.5 |
| **Purity:** | ≥98% |
| **Supplied as:** | A solid |
| **Storage:** | -20°C |
| **Stability:** | ≥4 years |



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

### Laboratory Procedures

Tubulin inhibitor 11 is supplied as a solid. A stock solution may be made by dissolving the tubulin inhibitor 11 in the solvent of choice, which should be purged with an inert gas. Tubulin inhibitor 11 is soluble (≥10 mg/ml) in ethanol and DMSO.

### Description

Tubulin inhibitor 11 is a tubulin polymerization inhibitor.[1] It inhibits the proliferation of DU145 prostate cancer cells ($IC_{50}$ = 8 nM) and induces cell cycle arrest at the $G_2$/M phase and apoptosis in the same cells. Tubulin inhibitor 11 also inhibits the proliferation of A549 lung and MCF-7 breast cancer cells resistant to paclitaxel (Item No. 10461). It reduces tumor volume in several mouse xenograft models at 10 mg/kg.

### Reference


1. Lin, S., Du, T., Zhang, J., *et al*. Optimization of benzamide derivatives as potent and orally active tubulin inhibitors targeting the colchicine binding site. *J. Med. Chem.* **65(24),** 16372-16391 (2022).



**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.

**WARRANTY AND LIMITATION OF REMEDY**
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 08/05/2026



**CAYMAN CHEMICAL**
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
**PHONE:** [800] 364-9897
[734] 971-3335
**FAX:** [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM