Cytoskeleton

Tools for modifying actin or microtubule polymerization

FOCUS BIOMOLECULES

Taxol

Chemotherapeutic agent for the treatment of breast, non-small cell lung and ovarian cancer.[1] Acts as a promoter of tubulin polymerization and stabilizes microtubules in vitro and in vivo resulting in arrest of cells in the G2 and M phase of the cell cycle.

Product No: 10-2095 **5 mg/ 25 mg/**

Docetaxel

Antimitotic chemotherapeutic which inhibits via reversible high-affinity binding to microtubules.[2] Induces apoptosis in a variety of cancer cell lines. Can act in synergy with a other anticancer agents including kinase inhibitors.

Product No: 10-2286 **5 mg/ 25 mg/**

Latrunculins

Inhibit actin polymerization and disrupt microfilament organization. Significantly more potent than cytochalasins in the disruption of microfilament mediated processes.[3]

Latrunculin A Product No: 10-2254 **100 µg/ 500 µg/**

Latrunculin B Product No: 10-4303 **100 µg/ 1 mg/**

Ansamitocin P-3

Maytansinoid with potent cytotoxic activity.[4] Binds to the rhizoxin/phomopsin binding site on tubulin causing microtubule disassembly and preventing tubulin spiralization.[4]

Product No: 10-2199 **1 mg/ 5 mg/**

Epothilone B

Stabilizes microtubules and promotes tubulin polymerization inducing G_2-M cell cycle arrest.[5] Displays potent cytotoxic activity in a variety of cell lines and mouse models.

Product No: 10-2133 **1 mg/ 5 mg/**

Nocodazole

A microtubule polymerization inhibitor that is widely used to induce mitotic arrest and cell synchronization. Recently has been shown to inhibit a number of cancer-related kinases including ABL, c-Kit, BRAF, MEK1, MEK2, and MET.[6]

Product No: 10-2387 **10 mg/ 50 mg/**

CK-666

A potent, selective and reversible inhibitor of actin related proteins 2 and 3 (ARP2/3). An important new tool for studying actin assembly and the diverse range of actin-related processes in normal and pathophysiology.[7]

Product No: 10-3346 **5 mg/ 25 mg/**

BO-264

Inhibitor of transforming acidic coiled-coil 3 (TACC3), an important protein involved in microtubule stability and centrosome integrity.[8]

Product No: 10-4685 **5 mg/ 25 mg/**

Spastazoline

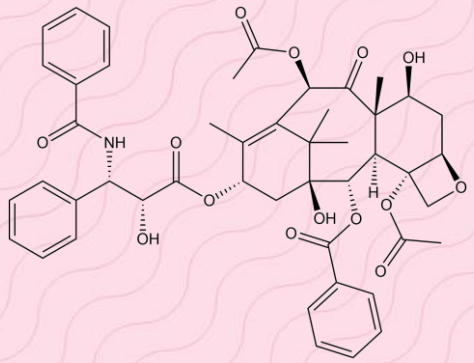
ATP-competitive inhibitor of the microtubule-severing AAA protein spastin.[9]

Product No: 10-4240 **5 mg/ 25 mg/**

Dynarrestin

Reversible inhibitor of cytoplasmic dyneins 1 and 2.[10] Inhibits dynein 1-dependent microtubule binding as well as dynein 2-dependent intraflagellar transport.

Product No: 10-4196 **5 mg/ 25 mg/**



Taxol

Many other cytoskeleton modulators are available. Get lower prices and next day delivery on:

Cytochalasins

Colchicine

Vinblastine sulfate

And more. . .

REFERENCES

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