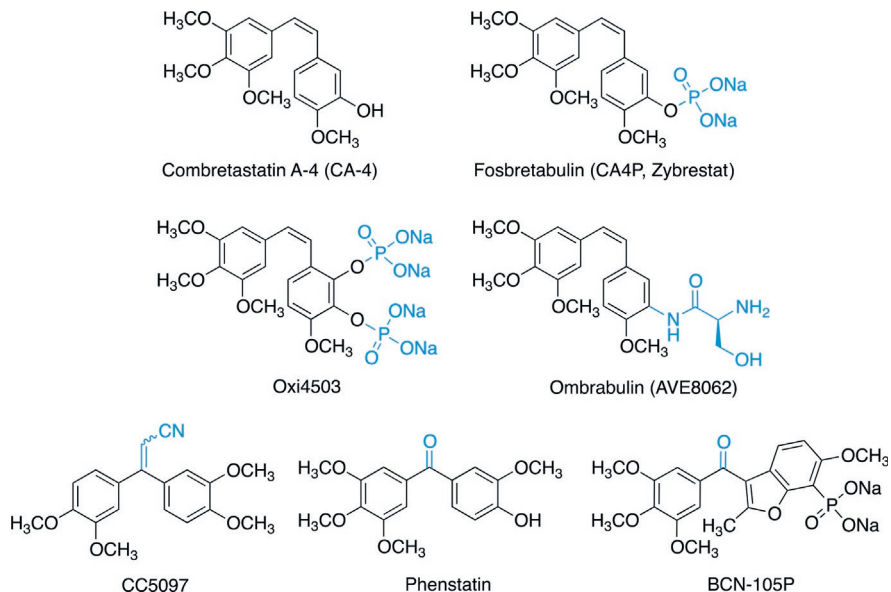
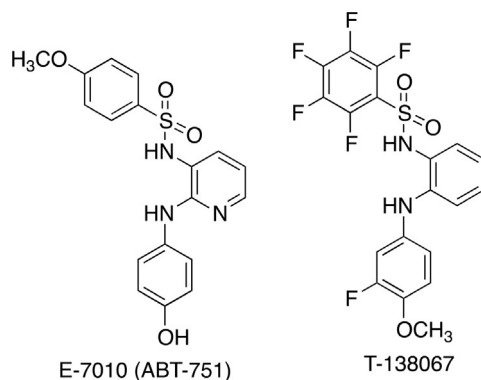


The vascular effects of combretastatin A-4 and its derivatives are discussed in [Section 5](#).



The methoxybenzenesulfonamide derivative E-7010 (ABT-751)⁴⁵ is an oral tubulin binder that has been clinically investigated in solid tumors and refractory hematological malignancies,⁴⁶ and T-138067 is a related sulfonamide that has been studied in phase II clinical trials.



Whereas E-7010 is a standard colchicine domain ligand, T-138067 acts by a different mechanism despite their similarity because it binds covalently to β -tubulin by S_N -Ar attack of its Cys-239 residue to the pentafluorophenyl ring of the drug, thereby preventing the polymerization of the tubulin dimers to microtubules ([Figure 9.4](#)).⁴⁷