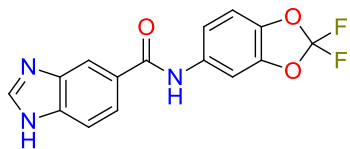
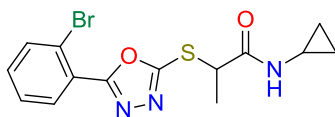


UORSY Tubulin Inhibitors

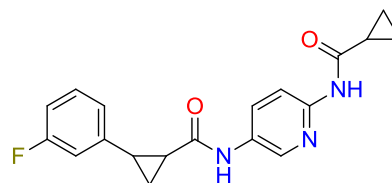
Microtubules affect cell shape, motility, transport and mitosis,¹ which make them desirable targets for anticancer treatment. Microtubule inhibitors, with both destabilizing and stabilizing action mechanisms, are known as antimitotic drugs.² However, resistance to a range of tubulin-binding agents, as a consequence of β -tubulin mutations, has remained an unresolved issue.³ For creating a tubulin inhibitors library, we docked our screening compound library against crystal structures of the known protein-tubulin complexes (4YJ2, 5C8Y, 5CA1).^{4,5} The docking was performed into the binding site of colchicine-derived inhibitors resulting in a set of 2023 compounds.



PB32379467



PB25222260



PB1161108732

Physicochemical profiles of UORSY tubulin inhibitors:

300<MW<400; 2<HbA<8; 0<HbD<4; -1<logP<5; 0<Fsp³<0.7; 2<RotBonds<9, 19<TPSA<165.

UORSY tubulin inhibitors are available in stock and could be delivered within 2 weeks in any customer-preferred format: as powders, dry films or DMSO solutions formatted in vials, 96 or 384-well plates. All compounds have a minimum purity of 90% assessed by ¹H NMR; analytical data is provided.

For more information, please contact us at screenlibs@uorsy.com

¹Eva Nogales, *Annu Rev Biomol Struct*, **2001**, 30, 397-420

²Edith A. Perez, *Mol Cancer Ther*, **2009**, 8(8), 2086-2095

³Maria Kavallaris, *Nat Rev Cancer*, **2010**, 10(3), 194-204

⁴Yuxi Wang et al, *Febs J*, **2016**, 283, 102-111

⁵Dan E. McNamara et al, *Protein Sci*, **2015**, 24, 1164-1172