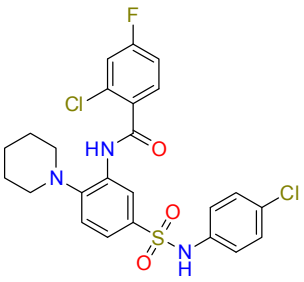
UORSY
unlimited discovery opportunities

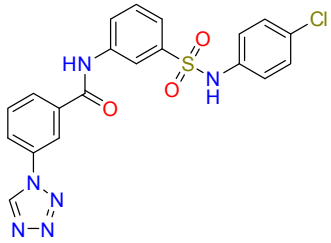
UORSY Wnt Pathway Modulators

Wnt pathway plays a crucial role in numerous vital processes. Aberrant Wnt signaling is associated with different types of cancer and other diseases, including metabolic and neurodegenerative disorders. However, none of the drugs specifically targeting Wnt pathway has been approved yet.[1]

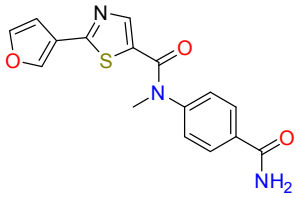
At UORSY, we combine a ligand-based and a docking-based approaches[2,3,4,5,6] to our novel chemistries and created a library of 4604 compounds that tackle various aspects of Wnt/Fz signaling. Virtual screening was performed against six targets and was aimed to find inhibitors of 1) **Dkk1**, 2) **Dvl-Axin** and inhibitors of PPIs of 3) **β-catenin/Tcf-4**, 4) **β-catenin/Bcl-9**, 5) **Wnt/sFRP-1**, 6) **Bc9/PYGO/Histone3**. The selected compounds are suitable for target-based, reporter-based, and phenotypic assays.



PB31884319



PB1246068230



PB32379467

Physicochemical profiles of **UORSY Wnt pathway modulators**:
200<MW<600; 1<HbA<9; 0<HbD<5; -1<logP<8; 0<Fsp^3<0.7; 2<RotBonds<10.

UORSY Wnt pathway modulators 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 ^{1}H NMR; analytical data is provided.

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

[1] Kahn, *Nat. Rev. Drug Discov.*, **2014**, 13, 513-532
[2] Bodine et al., *Bone*, **2009**, 44, 1063-1068
[3] Thysiadis et al., *Bioorganic Med.Chem.*, **2016**, 24, 1014-1022
[4] Huang et al., *ACS Chem. Biol.*, **2014**, 9, 193–201
[5] Sampietro et al., *Molecular Cell*, **2006**, 24, 293–300
[6] Miller et al., *ACS Chem. Biol.*, **2014**, 9, 2864–2874