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Electronic Supplementary Information

- S1: The training set, the test set, external test set and the deleted compound. The IC_{50} (LXR α), IC_{50} (LXR β), SR, and classification values were given.
- S2: The S-cluster results.
- S3: The detailed results of Pearson correlation analysis for MOE descriptors.
- S4: Table S1 Cross-validation results of 16 models derived from structural fingerprints.

 Table S2 Statistics of the typical privileged fragments and unprivileged fragments.
- Fig. S1 A: privileged fragments for selective LXR β agonists (PS1~20). B: Unprivileged fragments for selective LXR β agonists (NS1~20).
- S5: The performance of the ensemble classifier, Adaboost, LibD3C, and random forest.
- S6: The usage of LIBSVM for building SVM-PaDEL model.