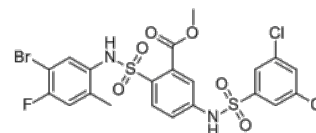


Product Name : MDL-800
Cat. No. : PC-35760
CAS No. : 2275619-53-7
Molecular Formula : C₂₁H₁₆BrCl₂FN₂O₆S₂
Molecular Weight : 626.289
Target : Sirtuin
Solubility : 10 mM in DMSO



Biological Activity

MDL-800 (MDL800) is a first-in-class, selective, cellular active **SIRT6** allosteric activator, increases SIRT6 deacetylation activity with EC₅₀ of 10.3 uM in RHKK-ac-AMC and FDL assays.

MDL-800 dramatically enhanced SIRT6 deacetylation activity by more than 22-fold, displays no activity toward SIRT1, SIRT3, SIRT4, and HDAC1-11 at 50-100 uM, as well as >10-fold selectivity toward SIRT2, SIRT5, and SIRT7.

MDL-800 activates SIRT6 through a surface allosteric site induces H3K9ac and H3K56ac deacetylation and represses proliferation of HCC cells (IC₅₀=23.3 uM).

MDL-800 inhibits xenograft tumor growth of HCC cells in immunocompromised mice by activating the deacetylase activity of SIRT6.

References

Huang Z, et al. *Nat Chem Biol*. 2018 Oct 29. doi: 10.1038/s41589-018-0150-0.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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