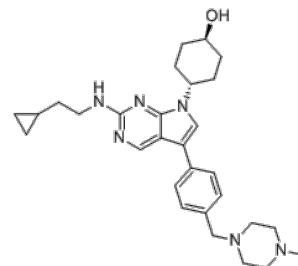


Product Name : MRX-2843
Cat. No. : PC-49059
CAS No. : 1429882-07-4
Molecular Formula : C₂₉H₄₀N₆O
Molecular Weight : 488.680
Target : TAM Receptor (Tyro3-Axl-Mer)
Solubility : 10 mM in DMSO



Biological Activity

MRX-2843 (UNC2371) is a potent, selective, orally available ATP-competitive type 1 inhibitor of both **Mer** and **Flt3** with IC₅₀ of 1.3 and 1.0 nM, respectively.

MRX-2843 shows 15-fold selectivity for these kinases over the other members of the TAM-family, AXL and TYRO-3 (IC₅₀=15 and 17 nM), and other relevant tyrosine kinases.

MRX-2843 (10-100 nM) inhibits MERTK activation and mediates functional antileukemia effects in MERTK-dependent AML models, inhibits MERTK phosphorylation, MRX-2843 (25-300 nM) inhibits downstream signaling through pathways (phosphorylation of ERK1/2, AKT, and STAT6) in Kasumi-1 cells.

MRX-2843 inhibits FLT3 activation and mediates functional antileukemic effects in FLT3-ITD AML models, inhibits phosphorylation of FLT3 and downstream signaling through STAT5, ERK1/2, and AKT, inhibits clonal expansion in MOLM-14 cultures (IC₅₀=29.5 nM).

MRX-2843 selectively inhibits colony formation in primary AML patient samples and prolongs survival in patient-derived xenograft models of AML.

References

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

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