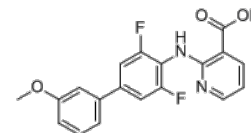


Product Name : Farudodstat
Cat. No. : PC-38392
CAS No. : 1035688-66-4
Molecular Formula : C₁₉H₁₄F₂N₂O₃
Molecular Weight : 356.329
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

Farudodstat (ASLAN003) is a highly potent, selective dihydroorotate dehydrogenase (**DHODH**) inhibitor with IC₅₀ of 35 nM (human DHODH), significantly inhibits protein synthesis via activation AP-1 transcription, induces cell differentiation of AML cell lines.

Farudodstat (ASLAN003) inhibit leukemic cell proliferation of THP-1, MOLM-14 and KG-1 with IC₅₀ values of 152 nM, 582 nM, and 382 nM, respectively.

Farudodstat (ASLAN003) decreases viability and induces differentiation in primary AML blasts and myelodysplastic syndrome samples, triggers apoptotic pathways via both mitochondrial and death receptor pathways.

Farudodstat (ASLAN003) (50 mg/kg, once daily oral gavage) demonstrates robust in vivo efficacy in multiple mouse xenograft AMLs.

References

Jianbiao Zhou, et al. *Haematologica*. 2020 Sep 1;105(9):2286-2297.

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

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