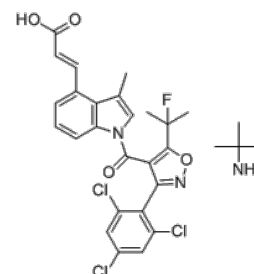


Product Name : DS-1001b
Cat. No. : PC-38189
CAS No. : 1898207-64-1
Molecular Formula : C₂₉H₂₉Cl₃FN₃O₄
Molecular Weight : 608.916
Target : Isocitrate Dehydrogenase (IDH)
Solubility : 10 mM in DMSO



Biological Activity

DS-1001b (DS1001b, Safusidenib) is a potent, selective, BBB-permeable and orally bioavailable **mutant IDH1** inhibitor with IC₅₀ of 8.4/11 nM against IDH1 R132H/R132C mutants.

DS-1001b strongly inhibited mutant IDH1, but not wild-type IDH1 or mutant IDH2 (IC₅₀ > 10 μM).

DS-1001b impairs the proliferation of IDH1 mutant GBM cells and induces differentiation in a subcutaneous PDX model, but not the growth of IDH wild-type GBM.

DS-1001b permeates the BBB and inhibits tumor growth in an orthotopic PDX model.

References

Yukino Machida, et al. *Mol Cancer Ther.* 2020 Feb;19(2):375-383.

Nakagawa M, et al. *Oncogene.* 2019 Oct;38(42):6835-6849.

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

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