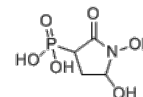


Product Name : SF2312
Cat. No. : PC-20387
CAS No. : 107729-45-3
Molecular Formula : C₄H₈NO₆P
Molecular Weight : 197.08
Target : Enolase
Solubility : 10 mM in DMSO



Biological Activity

SF2312 (SF 2312) is a highly potent inhibitor of **Enolase** with IC₅₀ of 37.9 and 42.5 nM for recombinant hENO1 and hENO2, respectively.

SF2312 previously isolated as natural phosphonate antibiotic of unknown mode of action.

SF2312 exhibits non-competitive kinetics with respect to substrate 2-PGA but competitive kinetics at higher concentrations of inhibitor.

SF2312 is selectively toxic to ENO1-deleted glioma cells in the low μM range.

SF2312 (10 μM) selectively blocks glycolysis in ENO1-deleted glioma cells.

SF2312 proved superior to PhAH for killing ENO1-deleted versus ENO1-rescued glioma cells, especially under anaerobic conditions.

References

Leonard PG, et al. *Nat Chem Biol*. 2016 Dec;12(12):1053-1058.

Watanabe H, et al. Science Reports of Meiji Seika Kaisha. 1986;(No. 25):12–17.

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

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