

Cedazuridine hydrochloride

Chemical Properties

CAS No. :

Formula: C₉H₁₅ClF₂N₂O₅

Molecular Weight: 304.68

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Cedazuridine (E7727) (Compound 7a) hydrochloride, an orally active cytidine deaminase (CDA) inhibitor with an IC ₅₀ of 0.4 μM, can be used for cancer research [1].
Targets(IC50)	Others,DNA/RNA Synthesis
In vitro	Cedazuridine (Compound 7a) demonstrates superior acid stability [1], and at concentrations of 0-10 μM over 72 hours, it does not enhance the growth inhibition effects of AZA (5-Azacytidine) in AML cell lines [2].
In vivo	Cedazuridine, when administered orally at a dose of 3 mg/kg daily for 7 days, in conjunction with 2.5 mg/kg AZA, induced tumor regression in both MOLM-13 cell line-derived (CDX) and patient-derived xenograft (PDX) mouse models of leukemia. Female NSGS mice, aged 6-8 weeks, were used for these experiments, demonstrating not only a reduction in leukemic expansion in synergy with AZA in a CDX setup but also showcasing preliminary safety and efficacy in a primary AML PDX scenario. Further investigations in NSGS male mice, with Cedazuridine doses ranging from 1 to 30 mg/kg combined with 2.5 mg/kg AZA, revealed a dose-dependent increase in the bioavailability (AUC) of orally administered AZA, compared to its standard intraperitoneal administration, suggesting enhanced pharmacokinetic performance.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2821 mL	16.4107 mL	32.8213 mL
5 mM	0.6564 mL	3.2821 mL	6.5643 mL
10 mM	0.3282 mL	1.6411 mL	3.2821 mL
50 mM	0.0656 mL	0.3282 mL	0.6564 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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