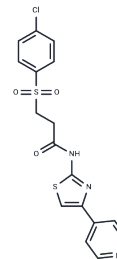


BRD7586

Chemical Properties

CAS No. : 895460-70-5
Formula: C₁₇H₁₄ClN₃O₃S₂
Molecular Weight: 407.89
Storage: Store at low temperature
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	BRD7586 is a cell-permeable small molecule inhibitor of SpCas9 that enhances SpCas9 specificity.
Targets(IC50)	Antibacterial,CRISPR/Cas9
In vitro	BRD7586 specifically binds to SpCas9 but not Cas12a in cells. In the HiBiT-knock-in assay, 0-20 μM BRD7586 inhibited SpCas9 in a dose-dependent manner. [1]

Solubility Information

Solubility	DMSO: 8 mg/mL (19.61 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.45 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4516 mL	12.2582 mL	24.5164 mL
5 mM	0.4903 mL	2.4516 mL	4.9033 mL
10 mM	0.2452 mL	1.2258 mL	2.4516 mL
50 mM	0.049 mL	0.2452 mL	0.4903 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.

Reference

Lim D, et al. A general approach to identify cell-permeable and synthetic anti-CRISPR small molecules. Nat Cell Biol. 2022 Dec;24(12):1766-1775.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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