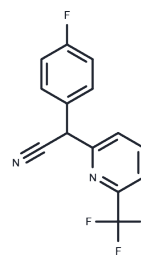


ML318

Chemical Properties

CAS No. : 1610516-67-0
 Formula: C₁₄H₈F₄N₂
 Molecular Weight: 280.22
 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	ML318 is a biaryl nitrile PvdQ acylase inhibitor (IC ₅₀ of 20 nM for binding in the acyl-binding site). ML318 inhibits <i>P. aeruginosa</i> (PAO1) with IC ₅₀ of 19 μM. ML318 prevents pyoverdine production and limits the growth of <i>P. aeruginosa</i> under iron-limiting conditions.
Targets(IC ₅₀)	Antibiotic

Solubility Information

Solubility	DMSO: 60 mg/mL (214.12 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5686 mL	17.8431 mL	35.6862 mL
5 mM	0.7137 mL	3.5686 mL	7.1372 mL
10 mM	0.3569 mL	1.7843 mL	3.5686 mL
50 mM	0.0714 mL	0.3569 mL	0.7137 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

Jacqueline M Wurst, et al. Identification of inhibitors of PvdQ, an enzyme involved in the synthesis of the siderophore pyoverdine. ACS Chem Biol. 2014 Jul 18;9(7):1536-44.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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