

KM-023

Chemical Properties

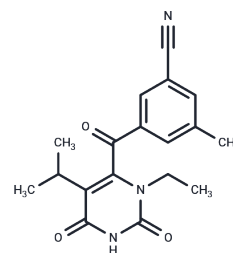
CAS No. : 1097628-00-6

Formula: C₁₈H₁₉N₃O₃

Molecular Weight: 325.36

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	KM-023 is a new second-generation non-nucleoside reverse transcriptase inhibitor for the study of human immunodeficiency virus (HIV) type 1 infection.
Targets(IC50)	HIV Protease
In vivo	KM-023 demonstrated dose- and time-dependent nonlinear pharmacokinetic characteristics after single or multiple doses over a dose range (75-600 mg) in healthy subjects. KM-023 showed a 0.6-fold accumulation after multiple doses in the 600 mg dose group. The mean half-life values ranged between 20.7 and 31.2 hours. KM-023 was generally well tolerated without serious adverse events. KM-023 showed favorable tolerability in this study.[1]

Solubility Information

Solubility	DMSO: 11 mg/mL (33.81 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	3.0735 mL	15.3676 mL	30.7352 mL
5 mM	0.6147 mL	3.0735 mL	6.147 mL
10 mM	0.3074 mL	1.5368 mL	3.0735 mL
50 mM	0.0615 mL	0.3074 mL	0.6147 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

Cha YJ, et al. Pharmacokinetics and tolerability of the new second-generation nonnucleoside reverse-transcriptase inhibitor KM-023 in healthy subjects. Drug Des Devel Ther. 2014;8:1613-1619.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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