

KP-302

Chemical Properties

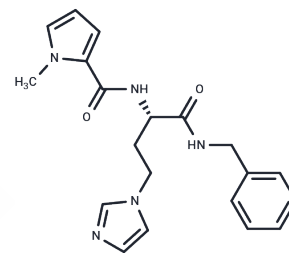
CAS No. : 2082765-42-0

Formula: C₂₀H₂₃N₅O₂

Molecular Weight: 365.43

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	KP-302 (compound 23) is a selective protein arginine deaminase 2 (PAD2) inhibitor with a K_i of 60 μ M, capable of reversing physical disability in multiple sclerosis (MS) mice and clearing T-cell infiltration in the brain.
Targets(IC ₅₀)	PAD

Solubility Information

Solubility	DMSO: 80 mg/mL (218.92 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 5 mg/mL (13.68 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	2.7365 mL	13.6825 mL	27.365 mL
5 mM	0.5473 mL	2.7365 mL	5.473 mL
10 mM	0.2737 mL	1.3683 mL	2.7365 mL
50 mM	0.0547 mL	0.2737 mL	0.5473 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

Sarswat A, et al. Inhibitors of protein arginine deiminases and their efficacy in animal models of multiple sclerosis. Bioorg Med Chem. 2017 May 1;25(9):2643-2656.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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