

(R)-BAY1238097

Chemical Properties

CAS No. : 1564269-85-7

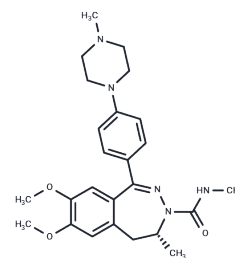
Formula: C₂₅H₃₃N₅O₃

Molecular Weight: 451.56

Store at low temperature

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	(R)-BAY1238097 represents the R-isomer of BAY1238097, which exhibits relatively lower activity compared to its counterpart. BAY1238097 is a highly potent and selective inhibitor targeting the binding of BET proteins to histones, demonstrating significant anti-proliferative effects in various acute myeloid leukemia (AML) and multiple myeloma (MM) models. The high activity is achieved through the down-regulation of c-Myc levels and the subsequent modulation of its downstream transcriptome.
Targets(IC50)	Epigenetic Reader Domain

Solubility Information

Solubility	DMSO: 120 mg/mL (265.75 mM), Sonication is recommended. H ₂ O: < 0.1 (insoluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (8.86 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	2.2145 mL	11.0727 mL	22.1455 mL
5 mM	0.4429 mL	2.2145 mL	4.4291 mL
10 mM	0.2215 mL	1.1073 mL	2.2145 mL
50 mM	0.0443 mL	0.2215 mL	0.4429 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

Lejeune, P., et al. (2015) Abstract 3524: BAY 1238097, a novel BET inhibitor with strong efficacy in hematological tumor models. *Cancer Research*, 75(15 Suppl), 884.

Bernasconi E, et al. Preclinical evaluation of the BET bromodomain inhibitor BAY 1238097 for the treatment of lymphoma. *Br J Haematol*. 2017 Sep;178(6):936-948.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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