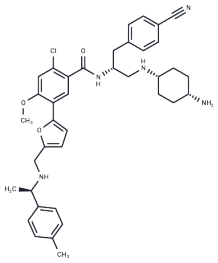
Data Sheet (Cat.No.T14510)

TargetMol

BAY-850

Chemical Properties



CAS No. : 2099142-76-2

Formula: C38H44ClN5O3

Molecular Weight: 654.24

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	BAY-850 is a selective and potent inhibitor of adenosine triphosphatase family protein 2 (ATAD2) (IC50: 166 nM) that inhibits ovarian cancer growth and metastasis in in vitro and in vivo models.
Targets(IC50)	Epigenetic Reader Domain
In vitro	In a TR-FRET assay, BAY-850 competes with the binding of a mono-acetylated Histone H4 N-terminal peptide to ATAD2 BD, showing an IC50 of 166 nM. BAY-850 displaces the tetra-acetylated peptide with an IC50 of 157 nM and a KD of 115 nM, respectively. The unprecedented isoform selectivity of BAY-850 suggests a mode of action different from those exhibited by canonical BD inhibitors[1].

Solubility Information

Solubility	H2O: <0.1 mg/mL (Insoluble) DMSO: 50 mg/mL (76.42 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: 5 mg/mL (7.64 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5285 mL	7.6425 mL	15.2849 mL
5 mM	0.3057 mL	1.5285 mL	3.057 mL
10 mM	0.1528 mL	0.7642 mL	1.5285 mL
50 mM	0.0306 mL	0.1528 mL	0.3057 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

Fernández-Montalván AE, et al. Isoform-Selective ATAD2 Chemical Probe with Novel Chemical Structure and Unusual Mode of Action. ACS Chem Biol. 2017 Nov 17;12(11):2730-2736.