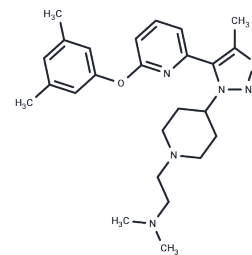


DW34

Chemical Properties

CAS No. : 2758171-54-7
 Formula: C₂₅H₃₄N₆O
 Molecular Weight: 434.58
 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	DW34 is an orally bioactive pan-BRD4-D1-biased inhibitor that also exhibits BRD4-D2 activity. It demonstrates a low nanomolar inhibitory effect comparable to I-BET151 (EC ₅₀ value of 0.16 μM), with an EC ₅₀ value of 0.14 μM. DW34 significantly alleviates lipopolysaccharide (LPS)-induced liver inflammation and acetaminophen (APAP)-induced toxicity by reducing chemokine expression and cell necrosis.
Targets(IC ₅₀)	Epigenetic Reader Domain, Necroptosis
In vitro	DW34 (Compound 3) effectively inhibits the expression of CXCL1 and CCL2 in LPS-induced transformed sinusoidal endothelial cells (TSECs) at concentrations of 0.31-5 μM over 5 hours. At 0.5-5 μM over 2 hours, DW34 demonstrates a stabilization effect on BRD4 in HEK293T cells comparable to I-BET151. Furthermore, DW34 exhibits good tolerance in transformed sinusoidal endothelial cells (TSECs) at concentrations ranging from 0.1 to 200 μM over 4 hours. It also induces a toxic response in megakaryocytes with an EC ₅₀ value of 90 nM.
In vivo	When administered orally at 30 mg/kg for durations of 9 or 12 hours, DW34 effectively reduces LPS-induced liver inflammation and APAP-induced toxicity by decreasing chemokine expression and cellular necrosis.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3011 mL	11.5054 mL	23.0107 mL
5 mM	0.4602 mL	2.3011 mL	4.6021 mL
10 mM	0.2301 mL	1.1505 mL	2.3011 mL
50 mM	0.046 mL	0.2301 mL	0.4602 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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