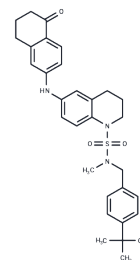


RORyt inverse agonist 34

Chemical Properties

CAS No. : 2247604-77-7
 Formula: C₃₁H₃₇N₃O₃S
 Molecular Weight: 531.709
 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	RORyt inverse agonist 34 (compound 5a) is an inverse agonist for RORyt, exhibiting an IC ₅₀ of 0.094 μM for the inhibition of RORyt-LBD. This compound is utilized in psoriasis research.
Targets(IC ₅₀)	ROR
In vitro	RORyt inverse agonist 34 inhibits the recruitment of SRC1 coactivator peptide by RORyt-LBD with an IC ₅₀ of 0.094 μM [1]. It effectively suppresses Th17 cell differentiation with an IC ₅₀ of 1.57 μM [1]. The compound has a half-life of 18 minutes in mouse liver microsomes at 1 μM concentration over 1 hour [1]. Furthermore, it shows low cardiac toxicity, as indicated by an hERG inhibition IC ₅₀ exceeding 40 μM [1].
In vivo	RORyt inverse agonist 34 administered at 100 mg/kg intraperitoneally daily for 7 days demonstrates significant efficacy in improving Imiquimod-induced psoriasis lesions [1]. When used as a 0.25% to 4% ointment daily for 11 days, it shows anti-psoriatic activity in a mouse model of Imiquimod-induced psoriasis [1]. In BALB/c mice, a 4% ointment applied transdermally (approximately 50 g) peaks in plasma concentration at 0.075 μg/mL after about 10 minutes [1]. Furthermore, administering a 10% to 20% mg/kg ointment daily over 12 days results in no apparent acute toxicity in BALB/c mice [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8807 mL	9.4036 mL	18.8072 mL
5 mM	0.3761 mL	1.8807 mL	3.7614 mL
10 mM	0.1881 mL	0.9404 mL	1.8807 mL
50 mM	0.0376 mL	0.1881 mL	0.3761 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

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