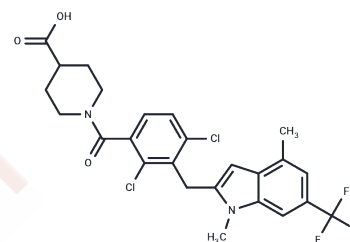


A-9758

Chemical Properties

CAS No. : 2055271-22-0
 Formula: C₂₅H₂₃Cl₂F₃N₂O₃
 Molecular Weight: 527.36
 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	A-9758 is a ROR γ ligand and selective ROR γ t inverse agonist (IC ₅₀ : 5 nM) that effectively suppresses IL-17A release, Th17 differentiation, and Th17 effector function, significantly attenuating IL-23 driven psoriasiform dermatitis.
Targets(IC ₅₀)	Interleukin,ROR
In vitro	A-9758 inhibits ROR γ transactivation in humans, mice, dogs, and rats (IC ₅₀ s: 38 nM, 20 nM, 25 nM, and 64 nM, respectively). It exhibits a cofactor profile by recruiting co-repressors [NCoR1: EC ₅₀ = 60 nM, NCoR2: EC ₅₀ = 43 nM] and derecruiting co-activators [NCoA1: IC ₅₀ = 110 nM, PGC1 α : IC ₅₀ = 49 nM]. A-9758 inhibits TCR-mediated IL-17A secretion with IC ₅₀ s of 100 nM and 38 nM for human CD4+ T cells and in vitro differentiated mouse Th17 cells, respectively, and attenuates the differentiation and/or effector function of ROR γ t-expressing Th17 cells.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8962 mL	9.4812 mL	18.9624 mL
5 mM	0.3792 mL	1.8962 mL	3.7925 mL
10 mM	0.1896 mL	0.9481 mL	1.8962 mL
50 mM	0.0379 mL	0.1896 mL	0.3792 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

Gauld S, et al. Inhibition of IL-23 mediated inflammation with a novel small molecule inverse agonist of ROR γ t. J Pharmacol Exp Ther. 2019 Aug 2. pii: jpet.119.258046.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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