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**Product Data Sheet**


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Product Name: A-9758  
 Cat. No.: GC35214

**Chemical Properties**

Cas. No. 2055271-22-0

SMILES O=C(C1CCN(C(C2=CC=C(Cl)C(CC(N3C)=CC4=C3C=C(C(F)(F)F)C=C4C)=C2Cl)=O)CC1)O

Formula C<sub>25</sub>H<sub>23</sub>Cl<sub>2</sub>F<sub>3</sub>N<sub>2</sub>O<sub>3</sub> M.Wt 527.36

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

**Background**

A-9758 is a ROR $\gamma$  ligand and a potent, selective ROR $\gamma$ t inverse agonist (IC<sub>50</sub>=5 nM), and exhibits robust potency against IL-17A release. A-9758 is effective in suppressing both Th17 differentiation and Th17 effector function. A-9758 significantly attenuates IL-23 driven psoriasiform dermatitis and is effective in blocking skin and joint inflammation[1]. IC<sub>50</sub>: 5 nM (ROR $\gamma$ t), 73 nM (ROR $\alpha$ ), 1370 nM (ROR $\beta$ )[1]

A-9758 inhibits human, mouse, dog and rat ROR $\gamma$  transactivation (IC<sub>50</sub>=38 nM, 20 nM, 25 nM and 64 nM, respectively)[1]. A-9758 displays a cofactor profile in recruiting co-repressors (NCoR1: EC<sub>50</sub>=60 nM, NCoR2: EC<sub>50</sub>=43 nM) and derecruiting co-activators (NCoA1: IC<sub>50</sub>=110 nM, PGC1 $\alpha$ : IC<sub>50</sub>=49 nM)[1]. A-9758 inhibits TCR-mediated IL-17A secretion with an IC<sub>50</sub> of 100 and 38 nM for human CD4+ T cells and in vitro differentiated mouse Th17 cells, respectively. A-9758 attenuates the differentiation of ROR $\gamma$ t expressing Th17 cells and/or their effector function[1].

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

**Caution: Product has not been fully validated for medical applications. For research use only.**

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