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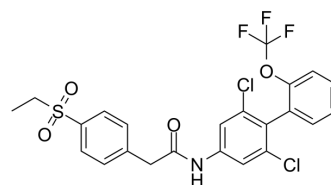
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GSK805

Cat. No.:	HY-12776
CAS No.:	1426802-50-7
Molecular Formula:	C ₂₃ H ₁₈ Cl ₂ F ₃ NO ₄ S
Molecular Weight:	532.36
Target:	ROR
Pathway:	Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (187.84 mM)

* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		1.8784 mL	9.3921 mL	18.7843 mL
	5 mM		0.3757 mL	1.8784 mL	3.7569 mL
	10 mM		0.1878 mL	0.9392 mL	1.8784 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (4.70 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (4.70 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	GSK805 is an orally active and CNS penetrant ROR γ t inhibitor. GSK805 inhibits ROR γ and Th17 cells differentiation with pIC ₅₀ values of 8.4 and >8.2. GSK805 inhibits the function of Th17 cells. GSK805 can be used for the research of immunity ^[1] .
IC ₅₀ & Target	IC ₅₀ : 8.4 (ROR γ t) ^[1]
In Vitro	GSK805 (0.5 μ M; 4 d) inhibits Th17 cell responses ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Differentiation Assay ^[2]

Cell Line:	CD4 ⁺ T cells
Concentration:	0.5 μ M
Incubation Time:	4 days
Result:	Inhibited IL-17 production during Th17 cell differentiation.

In Vivo

GSK805 (10 mg/kg; p.o. once per day for 35 days) improves the situation of mice with experimental autoimmune encephalomyelitis (EAE)^[2].

GSK805 (30 mg/kg; p.o. once) inhibits Th17 cell responses in EAE mice^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	C57BL/6 mice were immunized with MOG35–55 plus CFA ^[2]
Dosage:	10 mg/kg
Administration:	Oral gavage; 10 mg/kg once per day; for 35 days
Result:	Efficiently ameliorated the severity of EAE in mice.
Animal Model:	C57BL/6 mice with EAE ^[2]
Dosage:	30 mg/kg
Administration:	Oral gavage; 30 mg/kg once
Result:	Reduced both IFN- γ IL-17 ⁺ and IFN- γ ⁺ IL-17 ⁺ T cells without altered the frequency of TNF- α ⁺ T cells in EAE mice.

CUSTOMER VALIDATION

- Nat Microbiol. 2019 Mar;4(3):492-503.
- Proc Natl Acad Sci U S A. 2021 Nov 16;118(46):e2105950118.

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REFERENCES

- [1]. Xiao S, et al. Small-molecule ROR γ t antagonists inhibit T helper 17 cell transcriptional network by divergent mechanisms. Immunity. 2014 Apr 17;40(4):477-89.
- [2]. Wang Y, et al. Discovery of Biaryl Amides as Potent, Orally Bioavailable, and CNS Penetrant ROR γ t Inhibitors. ACS Med Chem Lett. 2015 May 26;6(7):787-792.

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

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