



LKT Laboratories, Inc.

SR1001

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Product Information

Product ID S6800

CAS No. 1335106-03-0

Chemical Name

Synonym

Formula $C_{15}H_{13}F_6N_3O_4S_2$

Formula Wt. 477.40

Melting Point

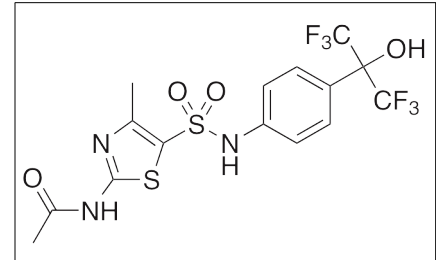
Purity $\geq 99\%$

Solubility DMSO: ≥ 39 mg/mL

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description SR1001 is an inverse agonist at ROR α/γ receptors that prevents Th17 cell development, differentiation, and function. It exhibits anti-diabetic, anti-inflammatory, immunomodulatory, and antidepressant activities. In animal models of diabetes, SR1001 decreases diabetes incidence and insulinitis, suppresses expression of pro-inflammatory cytokines, and increases levels of CD4⁺, Foxp3⁺ Treg cells. In animal models of depression-like behaviors, SR1001 decreases Th17-dependent learned helplessness.



Product ID	Size
S6800	1 mg
S6800	5 mg
S6800	25 mg
S6800	100 mg

References Solt LA, Banerjee S, Campbell S, et al. ROR inverse agonist suppresses insulinitis and prevents hyperglycemia in a mouse model of type 1 diabetes. *Endocrinology*. 2015 Mar;156(3):869-81. PMID: 25560829.

Beurel E, Harrington LE, Jope RS. Inflammatory T helper 17 cells promote depression-like behavior in mice. *Biol Psychiatry*. 2013 Apr 1;73(7):622-30. PMID: 23174342.

Solt LA, Kumar N, Nuhant P, et al. Suppression of TH17 differentiation and autoimmunity by a synthetic ROR ligand. *Nature*. 2011 Apr 28;472(7344):491-4. PMID: 21499262.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.