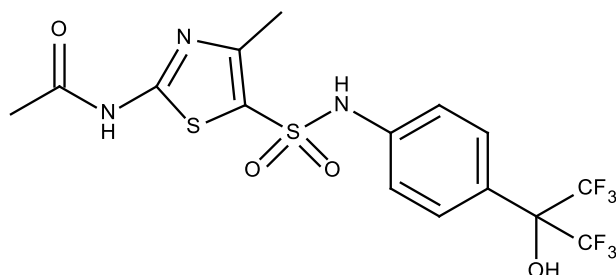


Catalog # 10-1290

SR-1001

CAS# 1335106-03-0

N-(5-(N-(4-(1,1,1,3,3,3-Hexafluoro-2-hydroxypropan-2-yl)phenyl)sulphamoyl)-4-methylthiazol-2-yl)acetamide
Lot # B104298



A high affinity synthetic ligand for both ROR α and ROR γ t acting as an inverse agonist. It binds specifically to the ligand-binding domain, inducing a conformational change which leads to diminished affinity for co-activators and increased affinity for co-repressors resulting in suppression of transcriptional activity¹. It inhibits the development of murine TH17 cells² and suppresses the expression of cytokines¹. Suppresses insulinitis and prevents hyperglycemia in a type 1 diabetes mouse model³. Protects against pathologic neovascularization in various mouse models of retinopathy⁴. Active *in vivo*.

- 1) Solt *et al.* (2011) *Suppression of TH17 differentiation and autoimmunity by a synthetic ROR ligand*. Nature, **472** 491
- 2) Beurel *et al.* (2013) *Inflammatory T helper 17 cells promote depression-like behavior in mice*; Biol. Psychiatry, **73** 622
- 3) Solt *et al.* (2015) *ROR inverse agonist suppresses insulinitis and prevents hyperglycemia in a mouse model of type 1 diabetes*; Endocrinology, **156** 869
- 4) Sun *et al.* (2015) *Nuclear receptor ROR α regulates pathologic retinal angiogenesis by modulating SOCS3-dependent inflammation*; Proc. Natl. Acad. Sci. USA, **112** 10401

PHYSICAL DATA

Molecular Weight:	477.39
Molecular Formula:	C ₁₅ H ₁₃ F ₆ N ₆ O ₄ S ₂
Purity:	>98% by TLC
	NMR: Conforms
Solubility:	DMSO (at least 40 mg/ml), Ethanol (40 mg/ml)
Physical Description:	Cream solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Protect from exposure to moisture. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.